List of 7400-series integrated circuits

The following is a **list of 7400-series digital logic integrated circuits**. In the mid-1960s, the original 7400-series integrated circuits were introduced by Texas Instruments with the prefix "SN" to create the name SN74xx. Due to the popularity of these parts, other manufacturers released pin-to-pin compatible logic devices and kept the 7400 sequence number as an aid to identification of compatible parts. However, other manufacturers use different prefixes and suffixes on their part numbers.

Overview

Some TTL logic parts were made with an extended military-specification temperature range. These parts are prefixed with **54** instead of **74** in the part number.[1]

A short-lived **64** prefix on Texas Instruments parts indicated an industrial temperature range; this prefix had been dropped from the TI literature by 1973. Most recent 7400-series parts are fabricated in CMOS or BiCMOS technology rather than TTL. Surface-mount parts with a single gate (often in a 5-pin or 6-pin package) are prefixed with **741G** instead of **74**.

Some manufacturers released some 4000-series equivalent CMOS circuits with a 74 prefix, for example, the 74HC4066[2] was a replacement for the 4066 with slightly different electrical characteristics (different power-supply voltage ratings, higher frequency capabilities, lower "on" resistances in analog switches, etc.). See List of 4000-series integrated circuits. Conversely, the 4000-series has "borrowed" from the 7400 series – such as the CD40193 and CD40161 being pin-for-pin *functional* replacements for 74C193 and 74C161.

Older TTL parts made by manufacturers such as Signetics, Motorola, Mullard and Siemens may have different numeric prefix and numbering series entirely, such as in the European FJ family FJH101 is an 8-input NAND gate like a 7430.

A few alphabetic characters to designate a specific logic subfamily may immediately follow the **74** or **54** in the part number, e.g., 74LS74 for low-power Schottky. Some CMOS parts such as 74HCT74 for high-speed CMOS with TTL-compatible input thresholds are functionally similar to the TTL part. Not all functions are available in all families. The generic descriptive feature of these alphabetic characters was diluted by various companies participating in the market at its peak and are not always consistent especially with more recent offerings. The National Semiconductor trademarks of the words FAST[3] and FACT[4] are usually cited in the descriptions from other companies when describing their own unique designations.[5][6]

In a few instances, such as the 7478 and 74107, the same suffix in different families do not have completely equivalent logic functions.

Another extension to the series is the **7416xxx** variant, representing mostly the 16-bit-wide counterpart of otherwise 8-bit-wide "base" chips with the same three ending digits. Thus e.g. a "7416373" would be the 16-bit-wide equivalent of a "74373". Some 7416xxx parts, however, do not have a direct counterpart from

the standard 74xxx range but deliver new functionality instead, which needs making use of the 7416xxx series' higher pin count. For more details, refer primarily to the Texas Instruments documentation mentioned in the References section.

For CMOS (AC, HC, etc.) subfamilies, read "open drain" for "open collector" in the table below.

There are a few numeric suffixes that have multiple conflicting assignments, such as the 74453.

Logic gates

Since there are numerous 7400-series parts, the following groups related parts to make it easier to pick a useful part number. This section only includes combinational logic gates.

For part numbers in this section, "x" is the 7400-series logic family, such as LS, ALS, HCT, AHCT, HC, AHC, LVC, ...

Normal inputs / push–pull outputs

Configuration	Buffer	Inverter
Hex 1-input	74x34	74x04
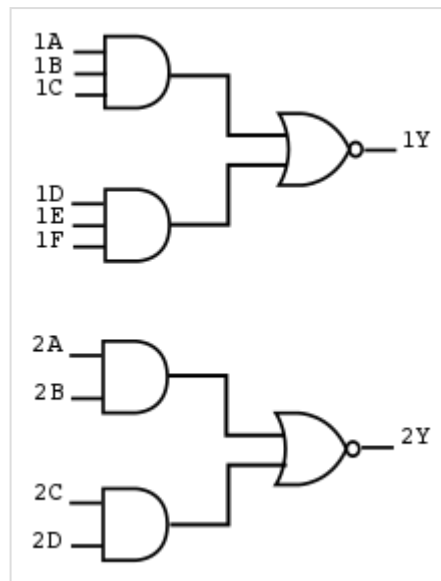
Schematic of 74LS51 IC consists of a 3-3 AOI gate and 2-2 AOI gate. AOI means AND-OR-Invert (AND-NOR). Most AOI chips are currently obsolete.
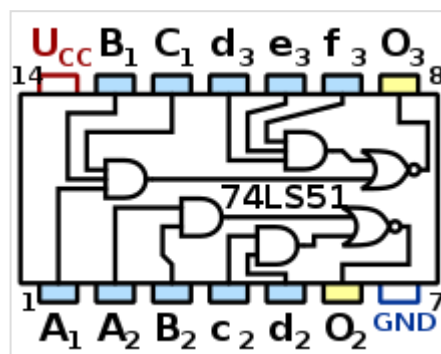
74LS51 pinout diagram

Configuration	AND	NAND	OR	NOR	XOR	XNOR
Quad 2-input	74x08	74x00	74x32	74x02	74x86	74x7266
Triple 3-Input	74x11	74x10	74x4075	74x27	n/a	n/a
Dual 4-input	74x21	74x20	74x4072	74x29	n/a	n/a
Single 8-input	n/a	74x30	74x4078	74x4078	n/a	n/a

Schmitt-trigger inputs / push–pull outputs

Configuration	Buffer	Inverter
Hex 1-input	74x7014	74x14

Configuration	AND	NAND	OR	NOR
Quad 2-input	74x7001	74x132	74x7032	74x7002
Dual 4-input	n/a	74x13	n/a	n/a

TI SN74LS51 in DIP-14 package

Normal inputs / open-collector outputs

Configuration	Buffer	Inverter
Hex 1-input	74x07	74x05

Configuration	AND	NAND	OR	NOR	XOR	XNOR
Quad 2-input	74x09	74x03	n/a	74x33	74x136	74x266
Triple 3-input	74x15	74x12	n/a	n/a	n/a	n/a
Dual 4-input	n/a	74x22	n/a	n/a	n/a	n/a

Schmitt-trigger inputs / three-state outputs

Configuration	Buffer	Inverter
Octal 1-input	74x241 74x244	74x240

AND-OR-invert (AOI) logic gates

NOTE: in past decades, a number of AND-OR-invert (AOI) parts were available in 7400 TTL families, but currently most are obsolete.

- SN5450 = dual 2-2 AOI gate, one is expandable (SN54 is military version of SN74)
- SN74LS51 = 2-2 AOI gate and 3-3 AOI gate
- SN54LS54 = single 2-3-3-2 AOI gate

Larger footprints

Parts in this section have a pin count of 14 pins or more. The lower part numbers were established in the 1960s and 1970s, then higher part numbers were added incrementally over decades. IC manufacturers continue to make a core subset of this group, but many of these part numbers are considered obsolete and no longer manufactured. Older discontinued parts may be available from a limited number of sellers as new old stock (NOS), though some are much harder to find.

For the following table:

- Part number column – the "x" is a place holder for the logic subfamily name. For example, 74x00 in "LS" logic family would be "74LS00".
- Description column – simplified to make it easier to sort, thus isn't identical to datasheet title. The terms Schmitt trigger, open-collector/open-drain, three-state were moved to the input and output columns to make it easier to sort by those features.

- Input column – a blank cell means a normal input for the logic family type.
- Output column – a blank cell means a "totem pole" output, also known as a push–pull output, with the ability to drive ten standard inputs of the same logic subfamily (fan-out $N_O = 10$). Outputs with higher output currents are often called drivers or buffers.
- Pins column – number of pins for the dual in-line package (DIP) version; a number in parentheses (round brackets) indicates that there is no known dual in-line package version of this IC.

Part number	Units	Description	Input	Output	Pins	Datasheet
74x00	4	quad 2-input NAND gate			14	SN74LS00 (http://www.ti.com/lit/gpn/sn74ls00)
74x01	4	quad 2-input NAND gate; different pinout for 74H01		open-collector	14	SN74LS01 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n61/)
74x02	4	quad 2-input NOR gate			14	SN74LS02 (http://www.ti.com/lit/gpn/sn74ls02)
74x03	4	quad 2-input NAND gate		open-collector	14	SN74LS03 (http://www.ti.com/lit/gpn/sn54ls03)
74x04	6	hex inverter gate			14	SN74LS04 (http://www.ti.com/lit/gpn/sn74ls04)
74x05	6	hex inverter gate		open-collector	14	SN74LS05 (http://www.ti.com/lit/gpn/sn74ls05)
74x06	6	hex inverter gate		open-collector 30 V / 40 mA	14	SN74LS06 (http://www.ti.com/lit/gpn/sn74ls06)
74x07	6	hex buffer gate		open-collector 30 V / 40 mA	14	SN74LS07 (http://www.ti.com/lit/gpn/sn74ls07)
74x08	4	quad 2-input AND gate			14	SN74LS08 (http://www.ti.com/lit/gpn/sn74ls08)
74x09	4	quad 2-input AND gate		open-collector	14	SN74LS09 (http://www.ti.com/lit/gpn/sn74ls09)
74x10	3	triple 3-input NAND gate			14	SN74LS10 (http://www.ti.com/lit/gpn/sn74ls10)
74x11	3	triple 3-input AND gate			14	SN74LS11 (http://www.ti.com/lit/gpn/sn74ls11)
74x12	3	triple 3-input NAND gate		open-collector	14	SN74LS12 (http://pdf.datasheetcatalog.com/datasheet/motorola/SN54LS12J.pdf)
74x13	2	dual 4-input NAND gate	Schmitt trigger		14	SN74LS13 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n125)
74x14	6	hex inverter gate	Schmitt trigger		14	SN74LS14 (http://www.ti.com/lit/gpn/sn74ls14)
74x15	3	triple 3-input AND gate		open-collector	14	SN74LS15 (http://pdf.datasheetcatalog.com/datasheet/motorola/74LS15.pdf)
74x16	6	hex inverter gate		open-collector 15 V / 40 mA	14	SN7416 (http://www.ti.com/lit/gpn/sn7416)
74x17	6	hex buffer gate		open-collector	14	SN7417 (http://www.ti.com/lit/gpn/sn7417)

				15 V / 40 mA		
74x18	2	dual 4-input NAND gate	Schmitt trigger		14	SN74LS18 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n149)
74x19	6	hex inverter gate	Schmitt trigger		14	SN74LS19 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n149)
74x20	2	dual 4-input NAND gate			14	SN74LS20 (http://www.ti.com/lit/gpn/sn74ls20)
74x21	2	dual 4-input AND gate			14	SN74LS21 (http://www.ti.com/lit/gpn/sn74ls21)
74x22	2	dual 4-input NAND gate		open-collector	14	SN74LS22 (http://pdf.datasheetcatalog.com/datasheets/270/331402_DS.pdf)
74x23	2	dual 4-input NOR gate with strobe, one gate expandable with 74x60			16	SN7423 (http://www.ti.com/lit/gpn/sn5423)
74x24	4	quad 2-input NAND gate	Schmitt trigger		14	SN74LS24 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n149)
74x25	2	dual 4-input NOR gate with strobe			14	SN7425 (http://www.ti.com/lit/gpn/sn7425)
74x26	4	quad 2-input NAND gate		open-collector 15 V	14	SN74LS26 (http://www.ti.com/lit/gpn/sn74ls26)
74x27	3	triple 3-input NOR gate			14	SN74LS27 (http://www.ti.com/lit/gpn/sn74ls27)
74x28	4	quad 2-input NOR gate		driver N_O=30	14	SN74LS28 (http://www.ti.com/lit/gpn/sn5428)
74x29	2	dual 4-input NOR gate			14	US7429A (https://archive.org/stream/bitsavers_derivationates1974DigitalIntegratedCircuitDataBook_79049866#page/n101)
74x30	1	single 8-input NAND gate			14	SN74LS30 (http://www.ti.com/lit/gpn/sn74ls30)
74x31	6	hex delay elements (two 6ns, two 23-32ns, two 45-48ns)			16	SN74LS31 (http://www.ti.com/lit/gpn/sn74ls31)
74x32	4	quad 2-input OR gate			14	SN74LS32 (http://www.ti.com/lit/gpn/sn74ls32)
74x33	4	quad 2-input NOR gate		open-collector driver N_O=30	14	SN74LS33 (http://www.ti.com/lit/gpn/sn74ls33)
74x34	6	hex buffer gate			14	MM74HC34 (http://pdf.datasheetcatalog.com/dat

					asheet/nationalsemiconductor/DS009389.PDF)
74x35	6	hex buffer gate		open-collector	SN74ALS35 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n101)
74x36	4	quad 2-input NOR gate (different pinout than 7402)			14	SN74HC36 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n81)
74x37	4	quad 2-input NAND gate		driver N_O=30	14	SN74LS37 (http://www.ti.com/lit/gpn/sn74ls37)
74x38	4	quad 2-input NAND gate		open-collector driver N_O=30	14	SN74LS38 (http://www.ti.com/lit/gpn/sn74ls38)
74x39	4	quad 2-input NAND gate (different pinout than 7438)		open-collector 60 mA	14	SN7439 (http://pdf.datasheetcatalog.com/datasheets/90/338005_DS.pdf)
74x40	2	dual 4-input NAND gate		driver N_O=30	14	SN74LS40 (http://pdf.datasheetcatalog.com/datasheet/motorola/SN54LS40J.pdf)
74x41	1	BCD to decimal decoder / Nixie tube driver		open-collector 70 V	16	DM7441A (https://archive.org/details/bitsavers_nationaldaTTLDatabook_42712617/page/n146)
74x42	1	BCD to decimal decoder			16	SN74LS42 (http://www.ti.com/lit/gpn/sn74ls42)
74x43	1	excess-3 to decimal decoder			16	SN7443A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n231)
74x44	1	Gray code to decimal decoder			16	SN7444A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n231)
74x45	1	BCD to decimal decoder/driver		open-collector 30 V / 80 mA	16	SN7445 (http://www.ti.com/lit/gpn/sn7445)
74x46	1	BCD to 7-segment display decoder/driver		open-collector 30 V	16	SN7446A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n244)
74x47	1	BCD to 7-segment decoder/driver		open-collector 15 V	16	SN74LS47 (http://www.ti.com/lit/gpn/sn74ls47)
74x48	1	BCD to 7-segment decoder/driver		open-collector, 2 kΩ pull-up	16	SN74LS48 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n244)
74x49	1	BCD to 7-segment decoder/driver		open-collector	14	SN74LS49 (https://archive.org/details/bitsavers_

						tidataBookVol2_4594535 2/page/n244)
74x50	2	dual 2-2-input AND-OR-Invert gate, one gate expandable			14	SN7450 (http://www.ti.com/lit/gpn/sn5450)
7451, 74H51, 74S51	2	dual 2-2-input AND-OR-Invert (AOI) gate			14	SN7451 (http://www.ti.com/lit/gpn/sn74ls51)
74L51, 74LS51	2	3-3-input AND-OR-Invert gate and 2-2-input AND-OR-Invert gate			14	SN74LS51 (http://www.ti.com/lit/gpn/sn74ls51)
74x52	1	3-2-2-2-input AND-OR gate, expandable with 74x61			14	SN74H52 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n271)
7453	1	2-2-2-2-input AND-OR-Invert gate, expandable			14	SN7453 (https://archive.org/details/bitsavers_tid ataBookVol2_45945352/page/n273)
74H53	1	3-2-2-2-input AND-OR-Invert gate, expandable			14	SN74H53 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n273)
7454	1	2-2-2-2-input AND-OR-Invert gate			14	SN7454 (http://www.ti.com/lit/gpn/sn5454)
74H54	1	3-2-2-2-input AND-OR-Invert gate			14	SN74H54 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n279)
74L54, 74LS54	1	3-3-2-2-input AND-OR-Invert gate			14	SN74LS54 (http://www.ti.com/lit/gpn/sn5454)
74x55	1	4-4-input AND-OR-Invert gate, 74H55 is expandable			14	SN74LS55 (https://archive.org/details/bitsavers_ tidataBookVol2_4594535 2/page/n287)
74x56	1	50:1 frequency divider			8	SN74LS56 (https://archive.org/details/bitsavers_ tidataBookVol2_4594535 2/page/n291)
74x57	1	60:1 frequency divider			8	SN74LS57 (https://archive.org/details/bitsavers_ tidataBookVol2_4594535 2/page/n291)
74x58	2	3-3-input AND-OR gate and 2-2-input AND-OR gate			14	74HC58 (https://media.di gikey.com/pdf/Data%20 Sheets/NXP%20PDFs/7 4HC58.pdf)
74x59	2	dual 3-2-input AND-OR-Invert gate			14	US7459A (https://archive.org/stream/bitsavers_d erivationates1974DigitalI ntegratedCircuitDataBoo k_79049866#page/n103)
74x60	2	dual 4-input expander for 74x23, 74x50, 74x53, 74x55			14	SN7460 (http://pdf.datas heetcatalog.com/datash eets/166/501736_DS.pd f)

74x61	3	triple 3-input expander for 74x52			14	SN74H61 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n299)
74x62	1	3-3-2-2-input AND-OR expander for 74x50, 74x53, 74x55			14	SN74H62 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n301)
74x63	6	hex current sensing interface gates			14	SN74LS63 (https://archive.org/details/bitsavers_ tidataBookVol2_4594535 2/page/n303)
74x64	1	4-3-2-2-input AND-OR-Invert gate			14	SN74S64 (http://www.ti.com/lit/gpn/sn54s64)
74x65	1	4-3-2-2 input AND-OR-Invert gate		open-collector	14	SN74S65 (http://www.ti.com/lit/gpn/sn54s64)
74x67	1	AND gated J-K master-slave flip-flop, asynchronous preset and clear (improved 74L72)			(16)	BL54L67Y (https://ntrs.nasa.gov/archive/nasa/ca si.ntrs.nasa.gov/197200 20596.pdf)
74L68	2	dual J-K flip-flop, asynchronous clear (improved 74L73)			(18)	BL54L68Y (https://ntrs.nasa.gov/archive/nasa/ca si.ntrs.nasa.gov/197200 20596.pdf)
74LS68	2	dual 4-bit decade counters			16	SN74LS68 (https://archive.org/details/bitsavers_ tidataBookVol2_4594535 2/page/n311)
74L69	2	dual J-K flip-flop, asynchronous preset, common clock and clear			(18)	BL54L69Y (https://archive.org/stream/bitsavers_d erivationates1974DigitalI ntegratedCircuitDataBoo k_79049866#page/n47)
74LS69	2	dual 4-bit binary counters			16	SN74LS69 (https://archive.org/details/bitsavers_ tidataBookVol2_4594535 2/page/n311)
74x70	1	AND-gated positive edge triggered J-K flip-flop, asynchronous preset and clear			14	SN7470 (https://archive.org/details/bitsavers_tid ataBookVol2_45945352/ page/n317)
74H71	1	AND-OR-gated J-K master-slave flip-flop, preset			14	SN74H71 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n321)
74L71	1	AND-gated R-S master-slave flip-flop, preset and clear			14	SN54L71 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n325)
74x72	1	AND gated J-K master-slave flip-flop, asynchronous preset and clear			14	SN7472 (http://www.ti.com/lit/gpn/sn5472)
74x73	2	dual J-K flip-flop, asynchronous clear			14	SN54LS73A (http://www.ti.com/lit/gpn/sn54ls73a)

74x74	2	dual D positive edge triggered flip-flop, asynchronous preset and clear			14	SN74LS74A (http://www.ti.com/lit/gpn/sn74ls74a)
74x75	2	4-bit bistable latch, complementary outputs			16	SN74LS75 (http://www.ti.com/lit/gpn/sn74ls75)
74x76	2	dual J-K flip-flop, asynchronous preset and clear			16	SN74LS76A (http://www.ti.com/lit/gpn/sn54ls76a)
74x77	1	4-bit bistable latch			14	SN74LS77 (http://www.ti.com/lit/gpn/sn74ls75)
74H78	2	dual positive pulse triggered J-K flip-flop, preset, common clock and common clear			14	SN74H78 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n369)
74L78	2	dual positive pulse triggered J-K flip-flop, preset, common clock and common clear			14	SN54L78 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n369)
74LS78	2	dual negative edge triggered J-K flip-flop, preset, common clock and common clear			14	SN74LS78A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n369)
74x79	2	dual D positive edge triggered flip-flop, asynchronous preset and clear			14	MC7479 (https://archive.org/details/bitsavers_motoroladaTTLIntegratedCircuitsDataBook_38442857/page/n387)
74x80	1	gated full adder			14	SN7480 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n377)
74x81	1	16-bit RAM			14	SN7481A (http://datasheet.datasheetarchive.com/originals/distributors/Datasheets-111/DSAP0036758.pdf)
74x82	1	2-bit binary full adder			14	SN7482 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n379)
74x83	1	4-bit binary full adder			16	SN74LS83A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n383)
74x84	1	16-bit RAM			16	SN7484A (http://datasheet.datasheetarchive.com/originals/distributors/Datasheets-111/DSAP0036758.pdf)
74x85	1	4-bit magnitude comparator			16	SN74LS85 (http://www.ti.com/lit/gpn/sn74ls85)
74x86	4	quad 2-input XOR gate			14	SN74LS86A (http://www.ti.com/lit/gpn/sn74ls86a)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x87	1	4-bit true/complement/zero/one element			14	SN74H87 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n403)
74x88	1	256-bit ROM (32x8)		open-collector	16	SN7488A (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n181)
74x89	1	64-bit RAM (16x4), 4 data inputs, 4 inverted data outputs		open-collector	16	SN7489 (http://pdf.datasheetcatalog.com/datasheets/270/499426_DS.pdf)
74x90	1	decade counter (separate divide-by-2 and divide-by-5 sections)			14	SN74LS90 (http://www.ti.com/lit/gpn/sn74ls90)
74x91	1	8-bit shift register, serial in, serial out, gated input			14	SN74LS91 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n419)
74x92	1	divide-by-12 counter (separate divide-by-2 and divide-by-6 sections)			14	SN74LS92 (http://www.ti.com/lit/gpn/sn74ls92)
74x93	1	4-bit binary counter (separate divide-by-2 and divide-by-8 sections); different pinout for 74L93			14	SN74LS93 (https://www.datasheets360.com/pdf/7761228217550421319)
74x94	1	4-bit shift register, dual asynchronous presets			16	SN7494 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n423)
74x95	1	4-bit shift register, parallel in, parallel out, serial input; different pinout for 74L95			14	SN74LS95B (https://www.datasheets360.com/pdf/-5053843966740530793)
74x96	1	5-bit parallel-in/parallel-out shift register, asynchronous preset			16	SN74LS96 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n435)
74x97	1	synchronous 6-bit binary rate multiplier			16	SN7497 (http://www.ti.com/lit/gpn/sn5497)
74x98	1	4-bit data selector/storage register			16	SN54L98 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n449)
74x99	1	4-bit bidirectional universal shift register			16	SN54L99 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n451)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x100	2	dual 4-bit bistable latch			24	SN74100 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n457)

74x101	1	AND-OR-gated J-K negative-edge-triggered flip-flop, preset			14	SN74H101 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n459)
74x102	1	AND-gated J-K negative-edge-triggered flip-flop, preset and clear			14	SN74H102 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n463)
74x103	2	dual J-K negative-edge-triggered flip-flop, clear			14	SN74H103 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n465)
74x104	1	J-K master-slave flip-flop			14	SN74104 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n469)
74x105	1	J-K master-slave flip-flop, J2 and K2 inverted			14	SN74105 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n469)
74x106	2	dual J-K negative-edge-triggered flip-flop, preset and clear			16	SN74H106 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n471)
74x107	2	dual J-K flip-flop, clear			14	SN74107 (http://www.ti.com/lit/gpn/sn74ls107a)
74x107A	2	dual J-K negative-edge-triggered flip-flop, clear			14	SN74LS107A (https://web.archive.org/web/20070125105009/http://focus.ti.com/lit/ds/symlink/sn74107.pdf)
74x108	2	dual J-K negative-edge-triggered flip-flop, preset, common clear and common clock			14	SN74H108 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n479)
74x109	2	dual J-NotK positive-edge-triggered flip-flop, clear and preset			16	SN74109 (http://www.ti.com/lit/gpn/sn74ls109a)
74x110	1	AND-gated J-K master-slave flip-flop, data lockout			14	SN74110 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n487)
74x111	2	dual J-K master-slave flip-flop, data lockout, reset, set			16	TL74111N (https://web.archive.org/web/20180727181024/http://www.fecegypt.com/uploads/dataSheet/1481104190_tl74115n.pdf)
74x112	2	dual J-K negative-edge-triggered flip-flop, clear and preset			16	SN74LS112A (http://www.ti.com/lit/gpn/sn74s112a)
74x113	2	dual J-K negative-edge-triggered flip-flop, preset			14	SN74LS113A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n499)

74x114	2	dual J-K negative-edge-triggered flip-flop, preset, common clock and clear			14	SN74LS114A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n505)
74x115	2	dual J-K master-slave flip-flop, data lockout, reset			14	TL74115N (https://web.archive.org/web/20180727181024/http://www.fecegypt.com/uploads/dataSheet/1481104190_tl74115n.pdf)
74116, 74L116	2	dual 4-bit latch, clear			24	SN74116 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n511) [7]:1–123
74H116	1	AND-gated J-K flip flop	*?*	*?*	14	MC74H116 (https://archive.org/details/Digital_IC_Equivalents/page/n97)
74x117	1	AND-gated J-K flip flop, one J and K input inverted	*?*	*?*	14	MC74H117 (https://archive.org/details/Digital_IC_Equivalents/page/n97)
74x118	6	hex set/reset latch, common reset			16	ITT74118 (https://archive.org/details/bitsavers_ittdataBootorProductCatalog_54440015/page/n161)
74119	6	hex set/reset latch			24	TL74119N (https://archive.org/stream/bitsavers_derivationates1974DigitalIntegratedCircuitDataBook_79049866#page/n57) [7]:1–125
74H119	2	dual J-K flip-flop, shared clear and clock inputs	*?*	*?*	14	MC74H119 (https://archive.org/details/Digital_IC_Equivalents/page/n97)
74120	2	dual pulse synchronizer/drivers	15 kΩ pull-up		16	SN74120 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n515)
74H120	2	dual J-K flip-flop, separate clock inputs	*?*	*?*	14	MC74H120 (https://archive.org/details/Digital_IC_Equivalents/page/n97)
74x121	1	monostable multivibrator	Schmitt trigger		14	SN74121 (http://www.ti.com/lit/gpn/sn74121)
74x122	1	retriggerable monostable multivibrator, clear			14	SN74122 (http://www.ti.com/lit/gpn/sn74ls122)
74x123	2	dual retriggerable monostable multivibrator, clear			16	SN74123 (http://www.ti.com/lit/gpn/sn74ls122)
74x124	2	dual voltage-controlled oscillator	analog		16	SN74S124 (http://www.ti.com/lit/gpn/sn54s124)
74x125	4	quad bus buffer, negative enable		three-state	14	SN74LS125A (http://www.ti.com/lit/gpn/sn74ls126a)

74x126	4	quad bus buffer, positive enable		three-state	14	SN74LS126A (http://www.ti.com/lit/gpn/sn74ls126a)
74x128	4	quad 2-input NOR gate		driver 50 Ω	14	SN74128 (http://www.ti.com/lit/gpn/sn74128)
74x130	2	retriggerable monostable multivibrator			16	SN74130 (http://www.ti.com/lit/gpn/sn74ls122)
74131	4	quad 2-input AND gate		open-collector 15 V	14	ITT74131 (https://archive.org/details/bitsavers_ittdataBootorProductCatalog_54440015/page/n181)
74AS131, 74ALS131	1	3-to-8 line decoder/demultiplexer, address register, inverting outputs			16	SN74AS131 (https://datasheet.datasheetarchive.com/originals/scans/Scans-067/DSA2IH00211615.pdf)
74x132	4	quad 2-input NAND gate	Schmitt trigger		14	SN74LS132 (http://www.ti.com/lit/gpn/sn74ls132)
74x133	1	single 13-input NAND gate			16	SN54ALS133 (http://www.ti.com/lit/gpn/sn54als133)
74x134	1	single 12-input NAND gate		three-state	16	SN74S134 (http://www.ti.com/lit/gpn/sn54s134)
74x135	4	quad XOR/XNOR gate, two inputs to select logic type			16	SN74S135 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n567)
74x136	4	quad 2-input XOR gate		open-collector	14	SN74LS136 (http://www.ti.com/lit/gpn/sn74ls136)
74x137	1	3-to-8 line decoder/demultiplexer, address latch, inverting outputs			16	SN74LS137 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n573)
74x138	1	3-to-8 line decoder/demultiplexer, inverting outputs			16	SN74LS138 (http://www.ti.com/lit/gpn/sn74ls138)
74x139	2	dual 2-to-4 line decoder/demultiplexer, inverting outputs			16	SN74LS139A (http://www.ti.com/lit/gpn/sn74ls139a)
74x140	2	dual 4-input NAND gate		driver 50 Ω	14	SN74S140 (http://www.ti.com/lit/gpn/sn54s140)
74x141	1	BCD to decimal decoder/driver for cold-cathode indicator / Nixie tube		open-collector 60 V	16	DM74141 (https://archive.org/details/bitsavers_nationaldaTTLDatabook_42712617/page/n146)
74x142	1	decade counter/latch/decoder/driver for Nixie tubes		open-collector 60 V	16	SN74142 (https://archive.org/details/bitsavers_tidataBook2ed07_23301973/page/n137)
74x143	1	decade counter/latch/decoder/7-segment driver		constant current 15 mA	24	SN74143 (https://archive.org/details/bitsavers_ti

					dataBook2ed07_233019 73/page/n141)
74x144	1	decade counter/latch/decoder/7-segment driver		open-collector 15 V / 25 mA	24	SN74144 (https://archive.org/details/bitsavers_ti dataBook2ed07_233019 73/page/n141)
74x145	1	BCD to decimal decoder/driver		open-collector 15 V / 80 mA	16	SN74145 (http://www.ti.com/lit/gpn/sn74ls145)
74x146	1	3-to-8 line decoder				MCE74H146 (https://archive.org/details/bitsaver s_motoroladaTTLIntegra tedCircuitsDataBook_38 442857/page/n77)
74x147	1	10-line to 4-line priority encoder			16	SN74147 (http://www.ti.com/lit/gpn/sn74ls148)
74x148	1	8-line to 3-line priority encoder			16	SN74148 (http://www.ti.com/lit/gpn/sn74ls148)
74x149	1	8-line to 8-line priority encoder			20	MM74HCT149 (http://pd f.datasheetcatalog.com/ datasheet/nationalsemic onductor/DS005364.PD F)
74x150	1	16-line to 1-line data selector/multiplexer			24	SN74150 (http://www.ti.com/lit/gpn/sn74ls151)
74x151	1	8-line to 1-line data selector/multiplexer			16	SN74151A (http://www.ti.com/lit/gpn/sn74ls151)
74x152	1	8-line to 1-line data selector/multiplexer, inverting output			14	SN54152A (https://archive.org/details/bitsavers_ tidataBookVol2_4594535 2/page/n611)
74x153	2	dual 4-line to 1-line data selector/multiplexer, non-inverting outputs			16	SN74153 (http://www.ti.com/lit/gpn/sn74ls153)
74x154	1	4-to-16 line decoder/demultiplexer, inverting outputs			24	SN74154 (https://web.ar chive.org/web/20150321 045049/http://www.ti.co m/lit/ds/symlink/sn7415 4.pdf)
74x155	2	dual 2-to-4 line decoder/demultiplexer, inverting outputs			16	SN74155 (http://www.ti.com/lit/gpn/sn74ls155a)
74x156	2	dual 2-to-4 line decoder/demultiplexer, inverting outputs		open-collector	16	SN74156 (http://www.ti.com/lit/gpn/sn74ls155a)
74x157	4	quad 2-line to 1-line data selector/multiplexer, non-inverting outputs			16	SN74157 (http://www.ti.com/lit/gpn/sn74ls157)
74x158	4	quad 2-line to 1-line data selector/multiplexer, inverting outputs			16	SN74LS158 (http://www.ti.com/lit/gpn/sn74ls157)
74x159	1	4-to-16 line decoder/demultiplexer		open-collector	24	SN74159 (https://web.ar chive.org/web/20070102

74x160	1	synchronous presettable 4-bit decade counter, asynchronous clear			16	SN74160 (http://www.ti.com/lit/gpn/sn74ls161a)
74x161	1	synchronous presettable 4-bit binary counter, asynchronous clear			16	SN74161 (http://www.ti.com/lit/gpn/sn74ls161a)
74x162	1	synchronous presettable 4-bit decade counter, synchronous clear			16	SN74162 (http://www.ti.com/lit/gpn/sn74ls161a)
74x163	1	synchronous presettable 4-bit binary counter, synchronous clear			16	SN74163 (http://www.ti.com/lit/gpn/sn74ls161a)
74x164	1	8-bit serial-in parallel-out (SIPO) shift register, asynchronous clear, not output latch			14	SN74164 (http://www.ti.com/lit/gpn/sn74ls164)
74x165	1	8-bit parallel-in serial-out (PISO) shift register, parallel load, complementary outputs			16	SN74165 (http://www.ti.com/lit/ds/symlink/sn54hc165.pdf)
74x166	1	parallel-load 8-bit shift register			16	SN74166 (http://www.ti.com/lit/gpn/sn54ls166a)
74x167	1	synchronous decade rate multiplier			16	SN74167 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n695)
74x168	1	synchronous presettable 4-bit up/down decade counter			16	DM74LS168 (https://archive.org/details/bitsavers_nationaldaTTLDatabook_42712617/page/n229)
74x169	1	synchronous presettable 4-bit up/down binary counter			16	SN74LS169B (http://www.ti.com/lit/gpn/sn74ls169b)
74x170	1	16-bit register file (4x4)		open-collector	16	SN74170 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n715)
74x171	4	quad D flip-flops, clear			16	SN74LS171 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n725)
74x172	1	16-bit multiple port register file (8x2)		three-state	24	SN74172 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n729)
74x173	4	quad D flip-flop, asynchronous clear		three-state	16	SN74173 (http://www.ti.com/lit/gpn/sn54ls173a)
74x174	6	hex D flip-flop, common asynchronous clear			16	SN74174 (http://www.ti.com/lit/gpn/sn74s175)
74x175	4	quad D edge-triggered flip-flop, complementary outputs and asynchronous clear			16	SN74175 (http://www.ti.com/lit/gpn/sn74s175)

74x176	1	presettable decade (bi-quinary) counter/latch			14	SN74176 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n745)
74x177	1	presettable binary counter/latch			14	SN74177 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n745)
74x178	1	4-bit parallel-access shift register			14	SN74178 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n751)
74x179	1	4-bit parallel-access shift register, asynchronous clear input, complementary Q_d output			16	SN74179 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n751)
74x180	1	9-bit odd/even parity bit generator and checker			14	SN74180 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n755)
74x181	1	4-bit arithmetic logic unit and function generator			24	SN74LS181 (http://www.ti.com/lit/gpn/sn54ls181)
74x182	1	lookahead carry generator			16	SN74S182 (https://web.archive.org/web/2016041 8004301/http://www.ti.co m/lit/ds/symlink/sn74s1 82.pdf)
74x183	2	dual carry-save full adder			14	SN74LS183 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n777)
74x184	1	BCD to binary converter		open-collector	16	SN74184 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n781)
74x185	1	6-bit binary to BCD converter		open-collector	16	SN74185A (https://archive.org/details/bitsavers_ tidataBookVol2_4594535 2/page/n781)
74x186	1	512-bit ROM (64x8)		open-collector	24	SN74186 (https://archive.org/details/bitsavers_ti dataBookForDesignEngi neers2ed_29954976/pag e/n121)
74x187	1	1024-bit ROM (256x4)		open-collector	16	SN74187 (https://archive.org/details/bitsavers_ti dataBookcomputerComp onentsDataBook_16851 665/page/n181)
74x188	1	256-bit PROM (32x8)		open-collector	16	SN74S188 (https://archive.org/details/bitsavers_ tidataBookcomputerCom ponentsDataBook_1685 1665/page/n173)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x189	1	64-bit RAM (16x4), 4 data inputs, 4 inverted data outputs		three-state	16	SN74S189 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n191)
74x190	1	synchronous presettable up/down 4-bit decade counter			16	SN74190 (http://www.ti.com/lit/gpn/sn74ls191)
74x191	1	synchronous presettable up/down 4-bit binary counter			16	SN74191 (http://www.ti.com/lit/gpn/sn74ls191)
74x192	1	synchronous presettable up/down 4-bit decade counter, clear			16	SN74192 (http://www.ti.com/lit/gpn/sn74ls193)
74x193	1	synchronous presettable up/down 4-bit binary counter, clear			16	SN74193 (http://www.ti.com/lit/gpn/sn74ls193)
74x194	1	4-bit bidirectional universal shift register			16	SN74194 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n820)
74x195	1	4-bit parallel-access shift register			16	SN74195 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n829)
74x196	1	presettable 4-bit decade counter/latch			14	SN74196 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n837)
74x197	1	presettable 4-bit binary counter/latch			14	SN74197 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n837)
74x198	1	8-bit bidirectional universal shift register			24	SN74198 (https://web.archive.org/web/20070228042947/http://focus.ti.com/lit/ds/symlink/sn74198.pdf)
74x199	1	8-bit universal shift register, J-NotK serial inputs			24	SN74199 (https://web.archive.org/web/20070228042947/http://focus.ti.com/lit/ds/symlink/sn74198.pdf)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x200	1	256-bit RAM (256x1)		three-state	16	DM74S200 (https://archive.org/details/bitsavers_nationaldaTTLDatabook_42712617/page/n299)
74x201	1	256-bit RAM (256x1)		three-state	16	SN74S201 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n195)
74x202	1	256-bit RAM (256x1) with power down		three-state	16	SN74LS202 (https://archive.org/details/bitsavers

					_tidataBook2ed05_2617 547/page/n51)
74x206	1	256-bit RAM (256x1)		open-collector	16	DM74S206 (https://archive.org/details/bitsavers_nationaldaTTLDatabook_42712617/page/n301)
74x207	1	1024-bit RAM (256x4)		three-state	16	SN74LS207 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n205)
74x208	1	1024-bit RAM (256x4), separate data in- and outputs		three-state	20	SN74LS208 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n205)
74x209	1	1024-bit RAM (1024x1)		three-state	16	SN74S209 (https://archive.org/details/bitsavers_tidataBookmoryDataBook1975_9924035/page/n171)
74x210	8	octal buffer, inverting		three-state	20	SN74LS210 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR#page/n311)
74x211	1	144-bit RAM (16x9) with output latch		three-state	20	74F211 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_29981933/page/n181)
74x212	1	144-bit RAM (16x9)		three-state	20	74F212 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_29981933/page/n185)
74x213	1	192-bit RAM (16x12)		three-state	20	74F213 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_29981933/page/n189)
74x214	1	1024-bit RAM (1024x1)		three-state	16	SN74LS214 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n199)
74x215	1	1024-bit RAM (1024x1) with power-down mode		three-state	16	SN74LS215 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n199)
74x216	1	256-bit RAM (64x4), common I/O		three-state	16	SN74LS216 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0044696.pdf)
74x217	1	256-bit RAM (64x4)		three-state	20	SN74ALS217 (https://archive.org/details/bitsavers_tidataBookuitsDataBo

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						ok_32771470/page/n17 3)
74x218	1	256-bit RAM (32x8)		three-state	20	SN74ALS218 (https://archive.org/details/bitsavers_tidataBookuitsDataBook_32771470/page/n173)
74x219	1	64-bit RAM (16x4), non-inverting outputs		three-state	16	SN74LS219 (https://archive.org/stream/SupplementToTheTTLDataBookForDesignEngineers2ndEdition/Supplement%20to%20The%20TTL%20Data%20Book%20for%20Design%20Engineers_2nd_Edition#page/n5)
74x221	2	dual monostable multivibrator	Schmitt trigger		16	SN74221 (http://www.ti.com/lit/gpn/sn74221)
74x222	1	64-bit FIFO memory (16x4), synchronous, input/output ready enable		three-state	20	SN74LS222 (http://www.ralphselectronics.com/productimages/SEMI-SN74LS224N.PDF)
74x224	1	64-bit FIFO memory (16x4), synchronous		three-state	16	SN74LS224 (http://www.ralphselectronics.com/productimages/SEMI-SN74LS224N.PDF)
74x225	1	80-bit FIFO memory (16x5), asynchronous		three-state	20	SN74S225 (http://www.ti.com/lit/gpn/sn74s225)
74x226	1	4-bit parallel latched bus transceiver		three-state	16	SN74S226 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n219)
74x227	1	64-bit FIFO memory (16x4), synchronous, input/output ready enable		open-collector	20	SN74LS727 (http://www.ralphselectronics.com/productimages/SEMI-SN74LS224N.PDF)
74x228	1	64-bit FIFO memory (16x4), synchronous		open-collector	20	SN74LS728 (http://www.ralphselectronics.com/productimages/SEMI-SN74LS224N.PDF)
74x229	1	80-bit FIFO memory (16x5), asynchronous		three-state	20	SN74ALS229B (https://web.archive.org/web/20070101063514/http://focus.ti.com/lit/ds/symlink/sn74als229b.pdf)
74x230	2	dual 4-bit buffer/driver, one inverted, one non-inverted; negative enable		three-state	20	SN74AS230 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n245)
74x231	2	dual 4-bit buffer/driver, both inverted; one positive and one negative enable		three-state	20	SN74AS231 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n245)
74x232	1	64-bit FIFO memory (16x4), asynchronous		three-state	16	SN74ALS232B (http://www.ti.com/lit/gpn/sn74al

						s232b)
74x233	1	80-bit FIFO memory (16x5), asynchronous		three-state	20	SN74ALS233B (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDatabook_63352841/page/n101)
74x234	1	256-bit FIFO memory (64x4), asynchronous		three-state	16	SN74ALS234 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDatabook_63352841/page/n63)
74x235	1	320-bit FIFO memory (64x5), asynchronous		three-state	20	SN74ALS235 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDatabook_63352841/page/n109)
74x236	1	256-bit FIFO memory (64x4), asynchronous		three-state	16	SN74ALS236 (https://web.archive.org/web/20070102044700/http://focus.ti.com/lit/ds/symlink/sn74als236.pdf)
74x237	1	3-to-8 line decoder/demultiplexer, address latch, active high outputs			16	CD74HC237 (http://www.ti.com/lit/gpn/cd54hc237)
74x238	1	3-to-8 line decoder/demultiplexer, active high outputs			16	CD74HC238 (http://www.ti.com/lit/gpn/CD74HC238)
74x239	2	dual 2-to-4 line decoder/demultiplexer, active high outputs			16	SN74HC239 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n241)
74x240	8	octal buffer, inverting outputs	Schmitt trigger	three-state	20	SN74LS240 (http://www.ti.com/lit/gpn/sn54ls240)
74x241	8	octal buffer, non-inverting outputs	Schmitt trigger	three-state	20	SN74LS241 (http://www.ti.com/lit/gpn/sn54ls240)
74x242	4	quad bus transceiver, inverting outputs	Schmitt trigger	three-state	14	SN74LS242 (https://web.archive.org/web/20040608202058/http://focus.ti.com/lit/ds/symlink/sn74ls242.pdf)
74x243	4	quad bus transceiver, non-inverting outputs	Schmitt trigger	three-state	14	SN74LS243 (http://www.ti.com/lit/gpn/sn74ls243)
74x244	8	octal buffer, non-inverting outputs	Schmitt trigger	three-state	20	SN74LS244 (http://www.ti.com/lit/gpn/sn54ls240)
74x245	8	octal bus transceiver, non-inverting outputs	Schmitt trigger	three-state	20	SN74LS245 (http://www.ti.com/lit/gpn/sn74ls245)
74x246	1	BCD to 7-segment decoder/driver		open-collector 30 V	16	SN74246 (http://www.ti.com/lit/gpn/sn74ls247)
74x247	1	BCD to 7-segment decoder/driver		open-collector 15 V	16	SN74247 (http://www.ti.com/lit/gpn/sn74ls247)

74x248	1	BCD to 7-segment decoder/driver		open-collector, 2 kΩ pull-up	16	SN74248 (http://www.ti.com/lit/gpn/sn74ls247)
74x249	1	BCD to 7-segment decoder/driver		open-collector	16	SN74249 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n879)
74x250	1	1 of 16 data selector/multiplexer		three-state	24	SN74AS250 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n273)
74x251	1	8-line to 1-line data selector/multiplexer, complementary outputs		three-state	16	SN74251 (http://www.ti.com/lit/gpn/sn74ls251)
74x253	2	dual 4-line to 1-line data selector/multiplexer		three-state	16	SN74LS253 (http://www.ti.com/lit/gpn/sn74ls253)
74x255	2	dual 2-to-4 line decoder/demultiplexer, inverting outputs		three-state	16	74LS255 (https://archive.org/details/bitsavers_icMaster19_198675341/page/n315)
74x256	2	dual 4-bit addressable latch			16	MC74F256 (https://archive.org/details/bitsavers_motoroladaFASTandLSTTLData_35934218/page/n161)
74x257	4	quad 2-line to 1-line data selector/multiplexer, non-inverting outputs		three-state	16	SN74LS257B (http://www.ti.com/lit/gpn/sn74ls257b)
74x258	4	quad 2-line to 1-line data selector/multiplexer, inverting outputs		three-state	16	SN74LS258B (http://www.ti.com/lit/gpn/sn74ls257b)
74x259	1	8-bit bit addressable input latch with clr			16	SN74259 (http://www.ti.com/lit/gpn/sn74ls259b)
74x260	2	dual 5-input NOR gate			14	SN74LS260 (http://pdf.datasheetcatalog.com/datasheets/90/488420_DS.pdf)
74x261	1	2-bit by 4-bit parallel binary multiplier			16	SN74LS261 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n921)
74x262	1	5760-bit ROM (Teletext character set, 128 characters 5x9)		three-state	20	SN74S262N (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0044628.pdf)
74x264	1	look ahead carry generator			16	SN74AS264 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n295)
74x265	4	quad complementary output elements			16	SN74265 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n927)

74x266	4	quad 2-input XNOR gate		open-collector	14	SN74LS266 (http://www.ti.com/lit/gpn/sn74ls266)
74x268	6	hex D-type latches, common output control, common enable		three-state	16	SN74S268 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n935)
74x269	1	8-bit bidirectional binary counter			24	MC74F269 (https://archive.org/details/bitsavers_motoroladaFASTandLSTTLData_35934218/page/n175)
74x270	1	2048-bit ROM (512x4)		open-collector	16	SN74S270 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n181)
74x271	1	2048-bit ROM (256x8)		open-collector	20	SN74S271 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n181)
74x273	1	8-bit register, asynchronous clear			20	SN74273 (http://www.ti.com/lit/gpn/sn74ls273)
74x274	1	4-bit by 4-bit binary multiplier		three-state	20	SN74S274 (https://archive.org/details/bitsavers_tidataBookForDesignEngineers2ed_29954976/page/n647)
74x275	1	7-bit slice Wallace tree		three-state	16	SN74S275 (https://archive.org/details/bitsavers_tidataBookForDesignEngineers2ed_29954976/page/n647)
74x276	4	quad J-NotK edge-triggered flip-flops, separate clocks, common preset and clear			20	SN74276 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n941)
74x278	1	4-bit cascadeable priority registers, latched data inputs			14	SN74278 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n945)
74x279	4	quad set-reset latch			16	SN74279 (http://www.ti.com/lit/gpn/sn54ls279a)
74x280	1	9-bit odd/even parity bit generator/checker			14	SN74LS280 (http://www.ti.com/lit/gpn/sn74ls280)
74x281	1	4-bit parallel binary accumulator			24	SN74S281 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n959)
74x282	1	look-ahead carry generator, selectable carry inputs			20	SN74AS282 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n309)
74x283	1	4-bit binary full adder (has carry in function)			16	SN74283 (http://www.ti.com/lit/gpn/sn74ls283)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x284	1	4-bit by 4-bit parallel binary multiplier (high order 4 bits of product)			16	SN74284 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n971)
74x285	1	4-bit by 4-bit parallel binary multiplier (low order 4 bits of product)			16	SN74285 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n971)
74x286	1	9-bit parity generator/checker, bus driver parity I/O port			14	SN74AS286 (http://www.ti.com/lit/gpn/sn74as286)
74x287	1	1024-bit PROM (256x4)		three-state	16	SN74S287 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n173)
74x288	1	256-bit PROM (32x8)		three-state	16	SN74S288 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n173)
74x289	1	64-bit RAM (16x4), 4 data inputs, 4 inverted data outputs		open-collector	16	SN74S289 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n191)
74x290	1	decade counter (separate divide-by-2 and divide-by-5 sections)			14	SN74290 (http://www.ti.com/lit/gpn/sn74ls293)
74x292	1	programmable frequency divider/digital timer			16	SN74LS292 (http://www.ti.com/lit/gpn/sn74ls292)
74x293	1	4-bit binary counter (separate divide-by-2 and divide-by-8 sections)			14	SN74293 (http://www.ti.com/lit/gpn/sn74ls293)
74x294	1	programmable frequency divider/digital timer			16	SN74LS294 (http://www.ti.com/lit/gpn/sn74ls292)
74x295	1	4-bit bidirectional shift register		three-state	14	SN74LS295B (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n989)
74x297	1	digital phase-locked loop filter			16	SN74LS297 (http://www.ti.com/lit/gpn/sn74ls297)
74x298	4	quad 2-input multiplexer, storage			16	SN74298 (http://www.ti.com/lit/gpn/sn74ls298)
74x299	1	8-bit bidirectional universal shift/storage register		three-state	20	SN74LS299 (http://www.ti.com/lit/gpn/sn74ls299)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x300	1	256-bit RAM (256x1)		open-collector	16	SN74LS300A (https://archive.org/details/TexasInstruments-TI-Data-TheTTLDataBookforDesignEngineersSecondEditionOCR/page/n135)

74x301	1	256-bit RAM (256x1)		open-collector	16	SN74S301 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n195)
74x302	1	256-bit RAM (256x1)		open-collector	16	SN74LS302 (https://archive.org/details/bitsavers_tidataBook2ed05_2617547/page/n63)
74x303	1	octal divide-by-2 clock driver, 2 outputs inverted			16	SN74AS303 (https://archive.org/details/TexasInstruments-TI-Data-AdvancedLogicandBusInterfaceLogic1991OCR/page/n515)
74x304	1	octal divide-by-2 clock driver			16	SN74AS304 (https://archive.org/details/TexasInstruments-TI-Data-AdvancedLogicandBusInterfaceLogic1991OCR/page/n517)
74x305	1	octal divide-by-2 clock driver, 4 outputs inverted			16	SN74AS305 (https://archive.org/details/TexasInstruments-TI-Data-AdvancedLogicandBusInterfaceLogic1991OCR/page/n521)
74x306	1	8-bit LV-TTL to GTL+ bus transceiver		three-state and open-collector	(24)	SN74GTLPH306 (https://www.ti.com/lit/gpn/SN74GTLPH306)
74x309	1	1024-bit RAM (1024x1)		open-collector	16	SN74S309 (https://archive.org/details/bitsavers_tidataBookmoryDataBook1975_9924035/page/n171)
74x310	8	octal buffer, inverting	Schmitt trigger	three-state	20	SN74LS310 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR#page/n315)
74x311	1	144-bit RAM (16x9) with output latch		open-collector	20	74F311 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_20099339/page/n303)
74x312	1	144-bit RAM (16x9)		open-collector	20	74F312 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_20099339/page/n303)
74x313	1	192-bit RAM (16x12)		open-collector	20	74F313 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_20099339/page/n303)
74x314	1	1024-bit RAM (1024x1)		open-collector	16	SN74LS314 (https://archive.org/details/bitsavers_tidataBookcomputerCo

					mponentsDataBook_168 51665/page/n199)
74x315	1	1024-bit RAM (1024x1) with power-down mode		open-collector	16	SN74LS315 (https://arch ive.org/details/bitsavers _tidataBookcomputerCo mponentsDataBook_168 51665/page/n199)
74x316	1	256-bit RAM (64x4), common I/O		open-collector	16	SN74LS316 (https://data sheet.datasheetarchive. com/originals/distributor s/Datasheets-112/DSAP 0044696.pdf)
74x317	1	256-bit RAM (64x4)		open-collector	20	SN74ALS317 (https://ar chive.org/details/bitsave rs_tidataBookuitsDataBo ok_32771470/page/n22 1)
74x318	1	256-bit RAM (32x8)		open-collector	20	SN74ALS318 (https://ar chive.org/details/bitsave rs_tidataBookuitsDataBo ok_32771470/page/n22 1)
74x319	1	64-bit RAM (16x4)		open-collector	16	SN74LS319 (https://arch ive.org/stream/Supplem entToTheTTLDataBookF orDesignEngineers2ndE dition/Supplement%20t o%20The%20TTL%20D ata%20Book%20for%20 Design%20Engineers_2 nd_Edition#page/n5)
74x320	1	crystal-controlled oscillator			16	SN74LS320 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1013)
74x321	1	crystal-controlled oscillators, F/2 and F/4 count-down outputs			16	SN74LS320 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1013)
74x322	1	8-bit shift register, sign extend		three-state	20	SN74LS322A (https://arc hive.org/details/bitsaver s_tidataBookVol2_45945 352/page/n1019)
74x323	1	8-bit bidirectional universal shift/storage register, synchronous clear		three-state	20	SN74LS323 (http://www. ti.com/lit/gpn/sn54ls323)
74x324	1	voltage-controlled oscillator (or crystal controlled), enable input, complementary outputs	analog		14	SN74LS324 (https://arch ive.org/details/bitsavers _tidataBook2ed07_2330 1973/page/n443)
74x325	2	dual voltage-controlled oscillator (or crystal controlled), complementary outputs	analog		16	SN74LS325 (https://arch ive.org/details/bitsavers _tidataBook2ed07_2330 1973/page/n443)
74x326	2	dual voltage-controlled oscillator (or crystal	analog		16	SN74LS326 (https://arch ive.org/details/bitsavers

		controlled), enable input, complementary outputs			_tidataBook2ed07_2330 1973/page/n443)
74x327	2	dual voltage-controlled oscillator (or crystal controlled)	analog		SN74LS327 (https://arch ive.org/details/bitsavers _tidataBook2ed07_2330 1973/page/n443)
74x330	1	PLA (12 inputs, 50 terms, 6 outputs)		three-state	SN74S330 (https://archi ve.org/details/bitsavers_ tidataBookcomputerCom ponentsDataBook_1685 1665/page/n231)
74x331	1	PLA (12 inputs, 50 terms, 6 outputs)		open-collector, 2.5 kΩ pull-up	SN74S331 (https://archi ve.org/details/bitsavers_ tidataBookcomputerCom ponentsDataBook_1685 1665/page/n231)
74x333	1	PLA (12 inputs, 32 terms, 6 outputs, 4 state registers)		three-state	SN74LS333 (https://data sheet.datasheetarchive. com/originals/distributor s/Datasheets-111/DSAP 0036733.pdf)
74x334	1	PLA (12 inputs, 32 terms, 6 outputs)		three-state	SN74LS334 (https://data sheet.datasheetarchive. com/originals/distributor s/Datasheets-111/DSAP 0036733.pdf)
74x335	1	PLA (12 inputs, 32 terms, 6 outputs, 4 state registers)		open-collector	SN74LS335 (https://data sheet.datasheetarchive. com/originals/distributor s/Datasheets-111/DSAP 0036733.pdf)
74x336	1	PLA (12 inputs, 32 terms, 6 outputs)		open-collector	SN74LS336 (https://data sheet.datasheetarchive. com/originals/distributor s/Datasheets-111/DSAP 0036733.pdf)
74x337	1	clock driver		three-state	SN74ABT337 (https://ar chive.org/details/TexasI nstruments-TI-Data-Adv ancedLogicandBusInterf aceLogic1991OCR/page/ n485)
74x340	8	octal buffer, inverting outputs	Schmitt trigger	three-state	SN74S340 (https://archi ve.org/details/bitsavers_ tidataBookForDesignEng ineers2ed_29954976/pag e/n701)
74x341	8	octal buffer, non-inverting outputs	Schmitt trigger	three-state	SN74S341 (https://archi ve.org/details/bitsavers_ tidataBookForDesignEng ineers2ed_29954976/pag e/n701)
74x344	8	octal buffer, non-inverting outputs	Schmitt trigger	three-state	SN74S344 (https://archi ve.org/details/bitsavers_ tidataBookForDesignEng ineers2ed_29954976/pag e/n701)

74x347	1	BCD to 7-segment decoders/drivers, low voltage version of 7447		open-collector	16	SN74LS347 (https://archive.org/details/bitsavers_tidataBookVol2_459453 52/page/n1027)
74x348	1	8 to 3-line priority encoder		three-state	16	SN74LS348 (http://www.ti.com/lit/gpn/sn74ls348)
74x350	1	4-bit shifter		three-state	16	SN74S350 (https://archive.org/details/bitsavers_tidataBookVol2_4594535 2/page/n1035)
74x351	2	dual 8-line to 1-line data selectors/multiplexers, 4 common data inputs		three-state	20	SN74351 (https://archive.org/details/bitsavers_ti dataBookVol2_4594535 2/page/n1041)
74x352	2	dual 4-line to 1-line data selectors/multiplexers, inverting outputs			16	SN74LS352 (https://archive.org/details/bitsavers_tidataBookVol2_459453 52/page/n1045)
74x353	2	dual 4-line to 1-line data selectors/multiplexers, inverting outputs		three-state	16	SN74LS353 (https://archive.org/details/bitsavers_tidataBookVol2_459453 52/page/n1047)
74x354	1	8-line to 1-line data selector/multiplexer, transparent registers		three-state	20	CD74HC354 (http://www.ti.com/lit/gpn/cd54hc35 4)
74x355	1	8-line to 1-line data selector/multiplexer, transparent registers		open-collector	20	SN74LS355 (https://archive.org/details/bitsavers_tidataBookVol2_459453 52/page/n1051)
74x356	1	8-line to 1-line data selector/multiplexer, edge-triggered registers		three-state	20	CD74HCT356 (http://www.ti.com/lit/gpn/cd74hct3 56)
74x357	1	8-line to 1-line data selector/multiplexer, edge-triggered registers		open-collector	20	SN74LS357 (https://archive.org/details/bitsavers_tidataBookVol2_459453 52/page/n1051)
74x361	1	bubble memory function timing generator			22	SN74LS361 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-X2/DSA84 8000-290.pdf)
74x362	1	four-phase clock generator/driver for Texas Instruments TMS9900			20	SN74LS362 (https://archive.org/details/bitsavers_tidataBook2ed07_2330 1973/page/n457)
74x363	1	octal transparent latch		three-state	20	SN74LS363 (https://archive.org/details/bitsavers_tidataBook2ed07_2330 1973/page/n465)
74x364	1	octal edge-triggered D-type register		three-state	20	SN74LS364 (https://archive.org/details/bitsavers_tidataBook2ed07_2330 1973/page/n465)
74x365	6	hex buffer, non-inverting outputs		three-state	16	SN74LS365A (http://www.ti.com/lit/gpn/sn54ls36

						6a)
74x366	6	hex buffer, inverting outputs		three-state	16	SN74HC366 (http://www.ti.com/lit/ds/symlink/sn54hc366.pdf)
74x367	6	hex buffer, non-inverting outputs		three-state	16	SN74LS367A (http://www.ti.com/lit/gpn/sn54ls366a)
74x368	6	hex buffer, inverting outputs		three-state	16	SN74LS368A (http://www.ti.com/lit/gpn/sn54ls366a)
74x370	1	2048-bit ROM (512x4)		three-state	16	SN74S370 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n181)
74x371	1	2048-bit ROM (256x8)		three-state	20	SN74S371 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n181)
74x373	8	octal transparent latch		three-state	20	SN74LS373 (http://www.ti.com/lit/gpn/sn54ls373)
74x374	8	octal register		three-state	20	SN74LS374 (http://www.ti.com/lit/gpn/sn54ls373)
74x375	4	quad bistable latch			16	SN74LS375 (http://www.ti.com/lit/gpn/sn74ls375)
74x376	4	quad J-NotK flip-flop, common clock and common clear			16	SN74376 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1081)
74x377	1	8-bit register, clock enable			20	SN74LS377 (http://www.ti.com/lit/gpn/sn74ls377)
74x378	1	6-bit register, clock enable			16	SN74LS378 (http://www.ti.com/lit/gpn/sn74ls377)
74x379	1	4-bit register, clock enable and complementary outputs			16	SN74LS379 (http://www.ti.com/lit/gpn/sn74ls377)
74x380	1	8-bit multifunction register (combines features of x374, x377, x273, x534 ICs)		three-state	24	SN74LS380 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR#page/n193)
74x381	1	4-bit arithmetic logic unit/function generator, generate and propagate outputs			20	SN74LS381A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1087)
74x382	1	4-bit arithmetic logic unit/function generator, ripple carry and overflow outputs			20	SN74LS382 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1087)
74x383	1	8-bit register		open-collector	20	SN74S383 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n433)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x384	1	8-bit by 1-bit two's complement multipliers			16	SN74LS384 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1095)
74x385	4	quad serial adder/subtractor			20	SN74LS385 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1099)
74x386	4	quad 2-input XOR gate			14	SN74LS386 (http://pdf.datasheetcatalog.com/datasheet/motorola/SN74LS386N.pdf)
74x387	1	1024-bit PROM (256x4)		open-collector	16	SN74S387 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n173)
74x388	1	4-bit D-type register		three-state and standard	16	Am74S388 (https://datasheet.datasheetarchive.com/originals/scans/Scans-000/Scans-0017104.pdf)
74x390	2	dual 4-bit decade counter, asynchronous clear			16	SN74LS390 (http://www.ti.com/lit/gpn/sn74ls390)
74x393	2	dual 4-bit binary counter, asynchronous clear			14	SN74LS393 (http://www.ti.com/lit/gpn/sn74ls390)
74x395	1	4-bit cascadable shift register		three-state	16	SN74LS395A (https://web.archive.org/web/20070101063359/http://focus.ti.com/lit/ds/symlink/sn74ls395a.pdf)
74x396	8	octal storage registers, parallel access			16	SN74LS396 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1119)
74x398	4	quad 2-input multiplexers, storage and complementary outputs			20	SN74LS398 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1119)
74x399	4	quad 2-input multiplexer, storage			16	SN74LS399 (http://www.ti.com/lit/gpn/sn74ls399)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x401	1	CRC generator/checker			14	74F401 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n371)
74x402	1	serial data polynomial generator/checker			16	74F402 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semicond

					uctor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n375)
74x403	1	64-bit FIFO memory (16x4)		three-state	24	74F403 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n383)
74x405	1	3-to-8 line decoder (equivalent to Intel 8205)			16	UCY74S405 (http://pdf.datasheetcatalog.com/datasheet/CEMI/mXyztyxt.pdf)
74406	1	3-to-8 line decoder	?	?	14	MC74406P (https://archive.org/details/Digital_IC_Equivalents/page/n113)
74AVCA406	1	ESD-protected voltage-translation transceiver			(48)	SN74AVCA406 (https://www.ti.com/lit/gpn/SN74AVCA406)
74x407	1	data access register		three-state	24	74F407 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n401)
74408	1	8-bit parity tree			14	MC74408 (https://archive.org/details/bitsavers_motoroladauctorDataLibraryVol8Chips_17508458/page/n407)
74S408	1	controller/driver for 16k/64k/256k dRAM			48	SN74S408 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n273)
74x409	1	controller/driver for 16k/64k/256k dRAM			48	SN74S409 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n291)
74x410	1	64-bit RAM (16x4) with output register		three-state	18	74F410 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n407)
74x411	1	FIFO RAM controller			40	74F411 (https://archive.org/details/bitsavers_fair

					childdldFASTDataBook_29981933/page/n357)
74x412	1	multi-mode buffered 8-bit latches (equivalent to Intel 3212/8212)		three-state	24	SN74S412 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n247)
74x413	1	256-bit FIFO memory (64x4)			16	74F413 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n417)
74x414	1	interrupt priority controller for Intel 8080 (equivalent to Intel 8214)			24	UCY74S414 (http://pdf.datasheetcatalog.com/datasheet/CEMI/mXyztyxr.pdf)
74416	1	modulo 10 counter, preload and clear inputs			16	MC74416[8]:50
74S416	1	4-bit bidirectional bus transceiver, non-inverting (equivalent to Intel 8216)		three-state	16	UCY74S416 (http://pdf.datasheetcatalog.com/datasheet/CEMI/mXyztyxq.pdf)
74x417	2	modulo 2 and modulo 5 counters, common preload and clear inputs			16	MC74417 (https://archive.org/details/bitsavers_motoroladauctorDataLibraryVol8Chips_17508458/page/n409)
74418	1	modulo 16 counter, preload and clear inputs			16	MC74418[8]:51
74F418	1	32-bit error detection and correction circuit		three-state	48	74F418 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_29981933/page/n375)
74419	2	dual modulo 4 counters, common preload and clear inputs			16	MC74419 (https://archive.org/details/bitsavers_motoroladauctorDataLibraryVol8Chips_17508458/page/n411)
74S419	1	FIFO RAM controller			40	74S419 (https://archive.org/details/bitsavers_mmidataBook6ed_79579213/page/n727)
74x420	1	32-bit check bit / syndrome bit generator		three-state	48	74F420 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n421)
74x422	1	retriggerable monostable multivibrators, two inputs			14	SN74LS422 (http://www.ti.com/lit/gpn/sn74ls423)

74x423	2	dual retriggerable monostable multivibrator			16	SN74LS423 (http://www.ti.com/lit/gpn/sn74ls423)
74424	2	dual voltage-controlled oscillator			14	MC74424[8]:52
74LS424	1	two-phase clock generator/driver for Intel 8080 (equivalent to Intel 8224)			16	SN74LS424 (https://archive.org/details/bitsavers_tidataBook2ed07_23301973/page/n505)
74x425	4	quad bus buffers, active low enables		three-state	14	SN74425 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1139)
74x426	4	quad bus buffers, active high enables		three-state	14	SN74426 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1139)
74x428	1	system controller for Intel 8080A (equivalent to Intel 8228)			28	SN74S428 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n253)
74x429	1	FIFO RAM controller		three-state	28	74LS429 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-111/DSAP0037196.pdf)
74x430	1	cyclic redundancy checker/corrector			28	74F430 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_20099339/page/n309)
74x432	1	8-bit multi-mode buffered latch		three-state	24	74F432 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n425)
74x433	1	256-bit FIFO memory (64x4)		three-state	24	74F433 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n431)
74x436	1	line driver/memory driver circuits - MOS memory interface, damping output resistor			16	SN74S436 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1143)
74x437	1	line driver/memory driver circuits - MOS memory interface			16	SN74S437 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1143)

74x438	1	system controller for Intel 8080A (equivalent to Intel 8238)			28	SN74S438 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n253)
74x440	4	quad tridirectional bus transceiver, non-inverting outputs		open-collector	20	SN74LS440 (https://web.archive.org/web/20070102044619/http://focus.ti.com/lit/ds/symlink/sn74ls442.pdf)
74x441	4	quad tridirectional bus transceiver, inverting outputs		open-collector	20	SN74LS441 (https://web.archive.org/web/20070102044619/http://focus.ti.com/lit/ds/symlink/sn74ls442.pdf)
74x442	4	quad tridirectional bus transceiver, non-inverting outputs		three-state	20	SN74LS442 (https://web.archive.org/web/20070102044619/http://focus.ti.com/lit/ds/symlink/sn74ls442.pdf)
74x443	4	quad tridirectional bus transceiver, inverting outputs		three-state	20	SN74LS443 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1147)
74x444	4	quad tridirectional bus transceiver, inverting and non-inverting outputs		three-state	20	SN74LS444 (https://web.archive.org/web/20070102044619/http://focus.ti.com/lit/ds/symlink/sn74ls442.pdf)
74x445	1	BCD to decimal decoders/drivers		driver 80 mA	16	SN74LS445 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1153)
74x446	4	quad bus transceivers, direction controls, inverting outputs		three-state	16	SN74LS446 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1155)
74x447	1	BCD to 7-segment decoders/drivers, low voltage version of 74247		open-collector	16	SN74LS447 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1159)
74x448	4	quad tridirectional bus transceiver, inverting and non-inverting outputs		open-collector	20	SN74LS448 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1147)
74x449	4	quad bus transceivers, direction controls, non-inverting outputs		three-state	16	SN74LS449 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1155)
74450	1	counter, latch, 7-segment decoder	?	open-collector	16	MC74450 (https://archive.org/details/bitsavers_motoroladauctorDataLibraryVol8Chips_17508458/page/n419)
74S450	1	8192-bit PROM (1024x8) with power-down		three-state	24	SN74S450 (https://archive.org/details/bitsavers_tidataBookcomputerCom

					24	ponentsDataBook_1685 1665/page/n177)
74LS450	1	16-to-1 multiplexer, complementary outputs			24	SN74LS450 (https://arch ive.org/stream/Monolithi cMemories-MMI-Bipolar LSI1982DatabookOCR# page/n201)
74S451	1	8192-bit PROM (1024x8) with power-down		open-collector	24	SN74S451 (https://archi ve.org/details/bitsavers_ tidataBookcomputerCom ponentsDataBook_1685 1665/page/n177)
74LS451	2	dual 8-to-1 multiplexer			24	SN74LS451 (https://arch ive.org/stream/Monolithi cMemories-MMI-Bipolar LSI1982DatabookOCR# page/n205)
74x452	2	dual decade counter, synchronous	?	?	16	MC74452 (https://archiv e.org/details/bitsavers_ motoroladauctorDataLibr aryVol8Chips_17508458/ page/n419)
74453	2	dual binary counter, synchronous	?	?	16	MC74453 (https://archiv e.org/details/bitsavers_ motoroladauctorDataLibr aryVol8Chips_17508458/ page/n421)
74LS453	4	quad 4-to-1 multiplexer			24	SN74LS453 (https://arch ive.org/stream/Monolithi cMemories-MMI-Bipolar LSI1982DatabookOCR# page/n209)
74x454	2	dual decade up/down counter, synchronous, preset input	?	?	24	MC74454 (https://archiv e.org/details/bitsavers_ motoroladauctorDataLibr aryVol8Chips_17508458/ page/n421)
74455	2	dual binary up/down counter, synchronous, preset input	?	?	24	MC74455 (https://archiv e.org/details/bitsavers_ motoroladauctorDataLibr aryVol8Chips_17508458/ page/n421)
74F455	1	octal buffer / line driver with parity, inverting		three-state	24	74F455 (https://archive. org/details/bitsavers_sig neticsdaManual_579666 40/page/n505)
74456	1	4-bit NBCD full adder	?	?	16	MC74456 (https://archiv e.org/details/bitsavers_ motoroladauctorDataLibr aryVol8Chips_17508458/ page/n421)
74F456	1	octal buffer / line driver with parity, non-inverting		three-state	24	74F456 (https://archive. org/details/bitsavers_sig neticsdaManual_579666 40/page/n505)
74x458	1	nines complement / zero element	?	?	14	MC74458 (https://archiv e.org/details/bitsavers_

						motoroladauctorDataLibraryVol8Chips_17508458/ page/n423)
74460	1	4-bit bus transfer switch	*?*	three-state	16	MC74460 (https://archive.org/details/bitsavers_ motoroladauctorDataLibraryVol8Chips_17508458/ page/n423)
74LS460	1	10-bit comparator			24	SN74LS460 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR# page/n219)
74x461	1	8-bit presettable binary counter		three-state	24	SN74LS461 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR# page/n185)
74x462	1	fiber-optic data-link transmitter		open-collector 100 mA and standard	20	SN74LS462 (https://datasheet.datasheetarchive.com/originals/scans/Scans-067/DSA2IH00215108.pdf)
74x463	1	fiber-optic data-link receiver	analog		20	SN74LS463 (https://datasheet.datasheetarchive.com/originals/scans/Scans-067/DSA2IH00215108.pdf)
74x465	8	octal buffer, non-inverting outputs		three-state	20	SN74LS465 (https://web.archive.org/web/20070101063029/http://focus.ti.com/lit/ds/symlink/sn74ls465.pdf)
74x466	8	octal buffers, inverting outputs		three-state	20	SN74LS466 (https://web.archive.org/web/20070101063029/http://focus.ti.com/lit/ds/symlink/sn74ls465.pdf)
74x467	8	octal buffers, non-inverting outputs		three-state	20	SN74LS467 (https://web.archive.org/web/20070101063029/http://focus.ti.com/lit/ds/symlink/sn74ls465.pdf)
74x468	8	octal buffers, inverting outputs		three-state	20	SN74LS468 (https://web.archive.org/web/20070101063029/http://focus.ti.com/lit/ds/symlink/sn74ls465.pdf)
74x469	1	8-bit synchronous up/down counter, parallel load and hold capability		three-state	24	SN74LS469 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR# page/n191)
74x470	1	2048-bit PROM (256x8)		open-collector	20	SN74S470 (https://archive.org/details/bitsavers_ tidataBookcomputerCom

					ponentsDataBook_1685 1665/page/n173)
74x471	1	2048-bit PROM (256x8)		three-state	20	SN74S471 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n173)
74x472	1	4096-bit PROM (512x8)		three-state	20	SN74S472 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n173)
74x473	1	4096-bit PROM (512x8)		open-collector	20	SN74S473 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n173)
74x474	1	4096-bit PROM (512x8)		three-state	24	SN74S474 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n173)
74x475	1	4096-bit PROM (512x8)		open-collector	24	SN74S475 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n173)
74x476	1	4096-bit PROM (1024x4)		three-state	18	SN74S476 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n177)
74x477	1	4096-bit PROM (1024x4)		open-collector	18	SN74S477 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n177)
74x478	1	8192-bit PROM (1024x8)		three-state	24	SN74S478 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n177)
74x479	1	8192-bit PROM (1024x8)		open-collector	24	SN74S479 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n177)
74x480	1	single burst error recovery circuit			24	SN74S480 (https://archive.org/details/bitsavers_mmidataBook6ed_79579 213/page/n727)
74x481	1	4-bit slice cascadable processor elements			(48)	SN74S481 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_1685 1665/page/n15)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x482	1	4-bit slice expandable control elements			20	SN74S482 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n259)
74x484	1	BCD-to-binary converter		three-state	20	SN74S484A (https://archive.org/details/bitsavers_tidataBook1986_14886851/page/n379)
74x485	1	binary-to-BCD converter		three-state	20	SN74S485A (https://archive.org/details/bitsavers_tidataBook1986_14886851/page/n379)
74x488	1	IEEE-488 bus interface			48	74ACT488 (https://archive.org/details/bitsavers_fairchilddldFACTLogicDataBook_27153725/page/n261)
74x490	2	dual decade counter			16	SN74490 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1167)
74x491	1	10-bit binary up/down counter, limited preset		three-state	24	SN74LS491 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR#page/n197)
74x498	1	8-bit bidirectional shift register, parallel inputs		three-state	24	SN74LS498 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR#page/n189)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x500	1	6-bit flash analog-to-digital converter (ADC)	analog		24	74F500 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_29981933/page/n409)
74x502	1	8-bit successive approximation register			16	74LS502 (https://archive.org/details/bitsavers_fairchilddldTTLDataBook_39509923/page/n497)
74x503	1	8-bit successive approximation register with expansion control			16	74LS503 (https://archive.org/details/bitsavers_fairchilddldTTLDataBook_39509923/page/n501)
74x504	1	12-bit successive approximation register with expansion control			24	74LS504 (https://archive.org/details/bitsavers_fairchilddldTTLDataBook_39509923/page/n505)
74x505	1	8-bit successive approximation ADC	analog	three-state	24	74F505 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_29981933/page/n413)
74x508	1	8-bit multiplier/divider			24	SN74S508 (https://archive.org/stream/MonolithicMemories-MMI-BipolarL

					SI1982DatabookOCR#page/n289)
74x515	1	programmable mapping decoder (2-to-4 line decoder with 9 programmable enable inputs)			20	74HCT515[9]:310
74x516	1	16-bit multiplier/divider			24	SN74S516 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n365)
74x518	1	8-bit comparator	20 kΩ pull-up	open-collector	20	SN74ALS518 (http://www.ti.com/lit/gpn/sn54als520)
74x519	1	8-bit comparator		open-collector	20	SN74ALS519 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n365)
74x520	1	8-bit comparator, inverting output	20 kΩ pull-up		20	SN74ALS520 (http://www.ti.com/lit/gpn/sn54als520)
74x521	1	8-bit comparator, inverting output			20	SN74ALS521 (http://www.ti.com/lit/gpn/sn54als520)
74x522	1	8-bit comparator, inverting output	20 kΩ pull-up	open-collector	20	SN74ALS522 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n365)
74x524	1	8-bit registered comparator		open-collector	20	74F524 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n449)
74x525	1	16-bit programmable counter			28	74F525 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n457)
74x526	1	fuse programmable identity comparator, 16-bit			20	SN74ALS526 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n371)
74x527	1	fuse programmable identity comparator, 8-bit + 4-bit conventional Identity comparator			20	SN74ALS527 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n371)
74x528	1	fuse programmable Identity comparator, 12-bit			16	SN74ALS528 (https://archive.org/details/bitsave

74x531	8	octal transparent latch		three-state	20	SN74S531 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR#page/n329)
74x532	8	octal register		three-state	20	SN74S532 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR#page/n329)
74x533	1	octal transparent latch, inverting outputs		three-state	20	CD74HC533 (http://www.ti.com/lit/gpn/cd74hct563)
74x534	1	octal register, inverting outputs		three-state	20	CD74HC534 (http://www.ti.com/lit/gpn/cd74hc564)
74x535	1	octal transparent latch, inverting outputs		three-state	20	SN74S535 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR#page/n331)
74x536	1	octal register, inverting outputs		three-state	20	SN74S536 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1982DatabookOCR#page/n331)
74x537	1	BCD to decimal decoder		three-state	20	MC74F537 (https://archive.org/details/bitsavers_motoroladaFASTandLSTTLData_35934218/page/n247)
74x538	1	3-to-8 line decoder/demultiplexer		three-state	20	SN74ALS538 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n389)
74x539	2	dual 2-to-4 line decoder/demultiplexer		three-state	20	SN74ALS539 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n393)
74x540	1	octal buffer, inverting outputs	Schmitt trigger	three-state	20	SN74LS540 (http://www.ti.com/lit/gpn/sn54ls540)
74x541	1	octal buffer, non-inverting outputs	Schmitt trigger	three-state	20	SN74LS541 (http://www.ti.com/lit/gpn/sn54ls540)
74x543	1	octal registered transceiver, non-inverting		three-state	24	SN74F543 (http://www.ti.com/lit/gpn/sn74f543)
74x544	1	octal registered transceiver, inverting		three-state	24	MC74F544 (https://archive.org/details/bitsavers_motoroladaFASTandLSTTLData_35934218/page/n261)
74x545	1	octal bidirectional transceiver, non-inverting		three-state	20	74F545 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDataboo

					k/National%20Semicond uctor%201988%20FAS T%20Advanced%20Sch ottky%20Databook#pag e/n497)
74x546	1	8-bit bidirectional registered transceiver, non-inverting		three-state	24	SN74LS546 (https://arch ive.org/details/bitsavers _mmidataBook6ed_7957 9213/page/n589)
74LS547	1	8-bit bidirectional latched transceiver, non-inverting		three-state	24	SN74LS547 (https://arch ive.org/details/bitsavers _mmidataBook6ed_7957 9213/page/n589)
74F547	1	3-to-8 line decoder/demultiplexer with address latches and acknowledge output			20	74F547 (https://archive. org/stream/NationalSemi conductor1988FASTAdv ancedSchottkyDataboo k/National%20Semicond uctor%201988%20FAS T%20Advanced%20Sch ottky%20Databook#pag e/n501)
74LS548	1	8-bit two-stage pipelined register		three-state	24	SN74LS548 (https://arch ive.org/details/bitsavers _mmidataBook6ed_7957 9213/page/n637)
74F548	1	3-to-8 line decoder/demultiplexer with acknowledge output			20	74F548 (https://archive. org/stream/NationalSemi conductor1988FASTAdv ancedSchottkyDataboo k/National%20Semicond uctor%201988%20FAS T%20Advanced%20Sch ottky%20Databook#pag e/n505)
74x549	1	8-bit two-stage pipelined latch		three-state	24	SN74LS549 (https://arch ive.org/details/bitsavers _mmidataBook6ed_7957 9213/page/n637)
74x550	1	octal registered transceiver with status flags, non-inverting		three-state	28	74F550 (https://archive. org/stream/NationalSemi conductor1988FASTAdv ancedSchottkyDataboo k/National%20Semicond uctor%201988%20FAS T%20Advanced%20Sch ottky%20Databook#pag e/n509)
74x551	1	octal registered transceiver with status flags, inverting		three-state	28	74F551 (https://archive. org/stream/NationalSemi conductor1988FASTAdv ancedSchottkyDataboo k/National%20Semicond uctor%201988%20FAS T%20Advanced%20Sch ottky%20Databook#pag e/n509)
74x552	1	octal registered transceiver with parity and flags		three-state	28	74F552 (https://archive. org/stream/NationalSemi

74x556	1	16x16-bit multiplier slice		three-state	(84)	74S556 (https://archive.org/details/bitsavers_mmidataBook7ed_126879625/page/n567)
74x557	1	8-bit by 8-bit multiplier		three-state	40	SN74S557 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n381)
74x558	1	8-bit by 8-bit multiplier		three-state	40	SN74S558 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n381)
74x559	1	8-bit expandable two's complement multiplier/divider		three-state	24	74F559 (https://archive.org/details/bitsavers_fairchildldFASTDataBook_20099339/page/n311)
74x560	1	4-bit decade counter		three-state	20	SN74ALS560A (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n401)
74x561	1	4-bit binary counter		three-state	20	SN74ALS561A (https://web.archive.org/web/20170305192612/http://www.ti.com/lit/ds/symlink/sn74als561a.pdf)
74x563	1	8-bit D-type transparent latch, inverting outputs		three-state	20	SN74ALS563B (http://www.ti.com/lit/gpn/sn54als563b)
74x564	1	8-bit D-type edge-triggered register, inverting outputs		three-state	20	SN74ALS564B (http://www.ti.com/lit/gpn/sn54als564b)
74x566	1	8-bit bidirectional registered transceiver, inverting		three-state	24	SN74LS566 (https://archive.org/details/bitsavers_mmidataBook6ed_79579213/page/n589)
74x567	1	8-bit bidirectional latched transceiver, inverting		three-state	24	SN74LS567 (https://archive.org/details/bitsavers_mmidataBook6ed_79579213/page/n589)
74x568	1	decade up/down counter		three-state	20	SN74ALS568A (http://www.ti.com/lit/gpn/sn74als569a)
74x569	1	binary up/down counter		three-state	20	SN74ALS569A (http://www.ti.com/lit/gpn/sn74als569a)
74x570	1	2048-bit PROM (512x4)		open-collector	16	DM74S570 (https://archive.org/details/bitsavers_

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					nationaldataBook_16727669/page/n315)
74x571	1	2048-bit PROM (512x4)		three-state	16	DM74S571 (https://archive.org/details/bitsavers_nationaldataBook_16727669/page/n315)
74x572	1	4096-bit PROM (1024x4)		open-collector	18	DM74S572 (https://archive.org/details/bitsavers_nationaldataBook_16727669/page/n317)
74x573	1	octal D-type transparent latch		three-state	20	SN74ALS573C (http://www.ti.com/lit/gpn/sn74als573c)
74x574	1	octal D-type edge-triggered flip-flop		three-state	20	SN74HC574 (http://www.ti.com/lit/ds/symlink/sn74hc574.pdf)
74x575	1	octal D-type edge-triggered flip-flop, synchronous clear		three-state	24	SN74ALS575A (http://www.ti.com/lit/gpn/sn74als575a)
74x576	1	octal D-type edge-triggered flip-flop, inverting outputs		three-state	20	SN74ALS576B (http://www.ti.com/lit/gpn/sn74as576)
74x577	1	octal D-type edge-triggered flip-flop, synchronous clear, inverting outputs		three-state	24	SN74ALS577A (http://www.ti.com/lit/gpn/sn74as576)
74x579	1	8-bit bidirectional binary counter		three-state	20	MC74F579 (https://archive.org/details/bitsavers_motoroladaFASTandLSTTLData_35934218/page/n273)
74x580	1	octal D-type transparent latch, inverting outputs		three-state	20	SN74ALS580B (http://www.ti.com/lit/gpn/sn74als580b)
74x582	1	4-bit BCD arithmetic logic unit			24	74F582 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n551)
74x583	1	4-bit BCD adder			16	74F583 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n555)
74x588	1	octal bidirectional transceiver with IEEE-488 termination resistors		three-state	20	74F588 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAS

Part number	Units	Description	Input	Output	Pins	Datasheet
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74x589	1	8-bit shift register, input latch		three-state	16	SN74LS589 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1181)
74x590	1	8-bit binary counter, output registers		three-state	16	SN74LS590 (http://www.ti.com/lit/gpn/sn74ls590)
74x591	1	8-bit binary counter, output registers		open-collector	16	SN74LS591 (http://www.ti.com/lit/gpn/sn74ls590)
74x592	1	8-bit binary counter, input registers			16	SN74LS592 (http://www.ti.com/lit/gpn/sn74ls592)
74x593	1	8-bit binary counter, input registers		three-state	20	SN74LS593 (http://www.ti.com/lit/gpn/sn74ls592)
74x594	1	8-bit shift registers, serial-in, parallel-out, output latches		buffered	16	SN74LS594 (http://www.ti.com/lit/gpn/sn74ls594)
74x595	1	8-bit shift registers, serial-in, parallel-out, output latches, output enable		three-state	16	SN74LS595 (http://www.ti.com/lit/gpn/sn74ls595)
74x596	1	8-bit shift registers, serial-in, parallel-out, output latches, output enable		open-collector	16	SN74LS596 (http://www.ti.com/lit/gpn/sn74ls595)
74x597	1	8-bit shift registers, parallel-in, serial-out, input latches			16	SN74LS597 (http://www.ti.com/lit/gpn/sn74ls597)
74x598	1	8-bit shift register, selectable parallel-in/out input latches		three-state	20	SN74LS598 (http://www.ti.com/lit/gpn/sn74ls597)
74x599	1	8-bit shift registers, serial-in, parallel-out, output latches		open-collector	16	SN74LS599 (http://www.ti.com/lit/gpn/sn74ls594)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x600	1	dynamic memory refresh controller, transparent and burst modes, for 4K or 16K dRAM		three-state	20	SN74LS600A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1217)
74x601	1	dynamic memory refresh controller, transparent and burst modes, for 64K dRAM		three-state	20	SN74LS601A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1217)
74x602	1	dynamic memory refresh controller, cycle steal and burst modes, for 4K or 16K dRAM		three-state	20	SN74LS602A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1217)
74x603	1	dynamic memory refresh controller, cycle steal and burst modes, for 64K dRAM		three-state	20	SN74LS603A (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1217)
74x604	1	octal 2-input multiplexer, latch, high-speed		three-state	28	SN74LS604 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1225)
74x605	1	octal 2-input multiplexer, latch, high-speed		open-collector	28	SN74LS605 (https://archive.org/details/bitsavers

						_tidataBookVol2_459453 52/page/n1225)
74x606	1	octal 2-input multiplexer, latch, glitch-free		three-state	28	SN74LS606 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1225)
74x607	1	octal 2-input multiplexer, latch, glitch-free		open-collector	28	SN74LS607 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1225)
74x608	1	memory cycle controller			16	SN74LS608 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1231)
74x610	1	memory mapper, latched		three-state	40	SN74LS610 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1237)
74x611	1	memory mapper, latched		open-collector	40	SN74LS611 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1237)
74x612	1	memory mapper		three-state	40	SN74LS612 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1237)
74x613	1	memory mapper		open-collector	40	SN74LS613 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1237)
74x614	1	octal bus transceiver and register, inverting		open-collector	24	SN74ALS614 (https://ar chive.org/details/bitsave rs_tidataBooktaBook_60 160366/page/n495)
74x615	1	octal bus transceiver and register, non-inverting		open-collector	24	SN74ALS615 (https://ar chive.org/details/bitsave rs_tidataBooktaBook_60 160366/page/n495)
74x616	1	16-bit parallel error detection and correction		three-state	40	SN74ALS616 (https://ar chive.org/details/bitsave rs_tidataBook_2834648 4/page/n101)
74x617	1	16-bit parallel error detection and correction		open-collector	40	SN74ALS617 (https://ar chive.org/details/bitsave rs_tidataBook_2834648 4/page/n101)
74x620	1	octal bus transceiver, inverting		three-state	20	SN74LS620 (http://www. ti.com/lit/gpn/sn74ls623)
74x621	1	octal bus transceiver, non-inverting		open-collector	20	SN74LS621 (http://www. ti.com/lit/gpn/sn74ls623)
74x622	1	octal bus transceiver, inverting		open-collector	20	SN74LS622 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1247)

74x623	1	octal bus transceiver, non-inverting		three-state	20	SN74LS623 (http://www.ti.com/lit/gpn/sn74ls623)
74x624	1	voltage-controlled oscillator, enable control, range control, two-phase outputs	analog		14	SN74LS624 (http://www.ti.com/lit/gpn/sn74ls624)
74x625	2	dual voltage-controlled oscillator, two-phase outputs	analog		16	SN74LS625 (http://www.ti.com/lit/gpn/sn74ls624)
74x626	2	dual voltage-controlled oscillator, enable control, two-phase outputs	analog		16	SN74LS626 (http://www.ti.com/lit/gpn/sn74ls624)
74x627	2	dual voltage-controlled oscillator	analog		14	SN74LS627 (http://www.ti.com/lit/gpn/sn74ls624)
74x628	1	voltage-controlled oscillator, enable control, range control, external temperature compensation, two-phase outputs	analog		14	SN74LS628 (http://www.ti.com/lit/gpn/sn74ls624)
74x629	2	dual voltage-controlled oscillator, enable control, range control	analog		16	SN74LS629 (http://www.ti.com/lit/gpn/sn74ls624)
74x630	1	16-bit error detection and correction (EDAC)		three-state	28	SN74LS630 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1263)
74x631	1	16-bit error detection and correction		open-collector	28	SN74LS631 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1263)
74x632	1	32-bit parallel error detection and correction, byte-write		three-state	52	SN74ALS632 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n457)
74x633	1	32-bit parallel error detection and correction, byte-write		open-collector	52	SN74ALS633 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n457)
74x634	1	32-bit parallel error detection and correction		three-state	48	SN74ALS634 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n457)
74x635	1	32-bit parallel error detection and correction		open-collector	48	SN74ALS635 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n457)
74x636	1	8-bit parallel error detection and correction		three-state	20	SN74LS636 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1271)
74x637	1	8-bit parallel error detection and correction		open-collector	20	SN74LS637 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1271)
74x638	1	octal bus transceiver, inverting outputs		three-state	20	SN74LS638 (https://archive.org/details/bitsavers

				and open-collector		_tidataBookVol2_459453 52/page/n1279)
74x639	1	octal bus transceiver, non-inverting outputs		three-state and open-collector	20	SN74LS639 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1279)
74x640	1	octal bus transceiver, inverting outputs		three-state	20	SN74LS640 (http://www. ti.com/lit/gpn/sn74ls640)
74x641	1	octal bus transceiver, non-inverting outputs		open-collector	20	SN74LS641 (http://www. ti.com/lit/gpn/sn74ls640)
74x642	1	octal bus transceiver, inverting outputs		open-collector	20	SN74LS642 (http://www. ti.com/lit/gpn/sn74ls640)
74x643	1	octal bus transceiver, mix of inverting and non-inverting outputs		three-state	20	SN74LS643 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1283)
74x644	1	octal bus transceiver, mix of inverting and non-inverting outputs		open-collector	20	SN74LS644 (http://www. ti.com/lit/gpn/sn74ls640)
74x645	1	octal bus transceiver, non-inverting outputs		three-state	20	SN74LS645 (http://www. ti.com/lit/gpn/sn74ls640)
74x646	1	octal bus transceiver/latch/multiplexer, non-inverting outputs		three-state	24	SN74ALS646A (http://w ww.ti.com/lit/gpn/sn54al s648)
74x647	1	octal bus transceiver/latch/multiplexer, non-inverting outputs		open-collector	24	SN74LS647 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1291)
74x648	1	octal bus transceiver/latch/multiplexer, inverting outputs		three-state	24	SN74ALS648A (http://w ww.ti.com/lit/gpn/sn54al s648)
74x649	1	octal bus transceiver/latch/multiplexer, inverting outputs		open-collector	24	SN74LS649 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1291)
74x651	1	octal bus transceiver/register, inverting outputs		three-state	24	SN74ALS651A (http://w ww.ti.com/lit/gpn/sn74al s654)
74x652	1	octal bus transceiver/register, non-inverting outputs		three-state	24	SN74ALS652A (http://w ww.ti.com/lit/gpn/sn74al s654)
74x653	1	octal bus transceiver/register, inverting outputs		three-state and open-collector	24	SN74ALS653 (http://ww w.ti.com/lit/gpn/sn74als6 54)
74x654	1	octal bus transceiver/register, non-inverting outputs		three-state and open-collector	24	SN74ALS654 (http://ww w.ti.com/lit/gpn/sn74als6 54)

74x655	1	octal buffer / line driver with parity, inverting		three-state	24	74F655 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_29981933/page/n553)
74x656	1	octal buffer / line driver with parity, non-inverting		three-state	24	74F656 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_29981933/page/n553)
74x657	1	octal bidirectional transceiver with 8-bit parity generator/checker		three-state	24	SN74F657 (http://www.ti.com/lit/gpn/sn74f657)
74x658	1	octal bus transceiver, parity, inverting		three-state	24	SN74HC658 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n395)
74x659	1	octal bus transceiver, parity, non-inverting		three-state	24	SN74HC659 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n395)
74x664	1	octal bus transceiver, parity, inverting		three-state	24	SN74HC664 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n409)
74x665	1	octal bus transceiver, parity, non-inverting		three-state	24	SN74HC665 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n409)
74x666	1	8-bit D-type transparent read-back latch, non-inverting		three-state	24	SN74ALS666 (http://www.ti.com/lit/gpn/sn74als666)
74x667	1	8-bit D-type transparent read-back latch, inverting		three-state	24	SN74ALS667 (http://www.ti.com/lit/gpn/sn74als666)
74x668	1	synchronous 4-bit decade up/down counter			16	SN74LS668 (https://web.archive.org/web/20060602131759/http://focus.ti.com/lit/ds/symlink/sn74ls669.pdf)
74x669	1	synchronous 4-bit binary up/down counter			16	SN74LS669 (https://web.archive.org/web/20060602131759/http://focus.ti.com/lit/ds/symlink/sn74ls669.pdf)
74x670	1	16-bit register file (4x4)		three-state	16	SN74LS670 (http://www.ti.com/lit/gpn/sn54ls670)
74x671	1	4-bit bidirectional shift register/latch/multiplexer, direct clear		three-state	20	SN74LS671 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1327)
74x672	1	4-bit bidirectional shift register/latch/multiplexer, synchronous clear		three-state	20	SN74LS672 (https://archive.org/details/bitsavers

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74x673	1	16-bit serial-in, serial/parallel-out shift register, output storage registers		three-state	24	SN74LS673 (http://www. ti.com/lit/gpn/sn74ls673)
74x674	1	16-bit parallel-in, serial-out shift register		three-state	24	SN74LS674 (http://www. ti.com/lit/gpn/sn74ls673)
74x675	1	16-bit serial-in, serial/parallel-out shift register			24	74F675A (https://archiv e.org/stream/NationalSe miconductor1988FASTA dvancedSchottkyDatabo ok/National%20Semicon ductor%201988%20FAS T%20Advanced%20Sch ottky%20Databook#pag e/n607)
74x676	1	16-bit serial/parallel-in, serial-out shift register			24	74F676 (https://archive. org/stream/NationalSemi conductor1988FASTAdv ancedSchottkyDataboo k/National%20Semicond uctor%201988%20FAS T%20Advanced%20Sch ottky%20Databook#pag e/n611)
74x677	1	16-bit address comparator, enable			24	SN74ALS677 (https://ar chive.org/details/bitsave rs_tidataBookVol3_2584 0031/page/n507)
74x678	1	16-bit address comparator, latch			24	SN74ALS678 (https://ar chive.org/details/bitsave rs_tidataBookVol3_2584 0031/page/n507)
74x679	1	12-bit address comparator, latch			20	SN74ALS679 (https://ar chive.org/details/bitsave rs_tidataBookVol3_2584 0031/page/n513)
74x680	1	12-bit address comparator, enable			20	SN74ALS680 (https://ar chive.org/details/bitsave rs_tidataBookVol3_2584 0031/page/n513)
74x681	1	4-bit parallel binary accumulator		three-state	20	SN74LS681 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1339)
74x682	1	8-bit magnitude comparator, P>Q output	20 kΩ pull-up		20	SN74LS682 (https://we b.archive.org/web/20160 531200122/http://www.ti. com/lit/ds/symlink/sn74l s682.pdf)
74x683	1	8-bit magnitude comparator, P>Q output	20 kΩ pull-up	open-collector	20	SN74LS683 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1345)
74x684	1	8-bit magnitude comparator, P>Q output			20	SN74LS684 (https://we b.archive.org/web/20160 531200122/http://www.ti.

						com/lit/ds/symlink/sn74l s682.pdf)
74x685	1	8-bit magnitude comparator, P>Q output		open-collector	20	SN74LS685 (https://we b.archive.org/web/20160 531200122/http://www.ti. com/lit/ds/symlink/sn74l s682.pdf)
74x686	1	8-bit magnitude comparator, P>Q output, enable			24	SN74LS686 (https://we b.archive.org/web/20160 531200122/http://www.ti. com/lit/ds/symlink/sn74l s682.pdf)
74x687	1	8-bit magnitude comparator, P>Q output, enable		open-collector	24	SN74LS687 (https://we b.archive.org/web/20160 531200122/http://www.ti. com/lit/ds/symlink/sn74l s682.pdf)
74x688	1	8-bit magnitude comparator, enable			20	SN74LS688 (https://we b.archive.org/web/20160 531200122/http://www.ti. com/lit/ds/symlink/sn74l s682.pdf)
74x689	1	8-bit magnitude comparator, enable		open-collector	20	SN74LS689 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1345)
74x690	1	4-bit decimal counter/latch/multiplexer, asynchronous clear		three-state	20	SN74LS690 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1353)
74x691	1	4-bit binary counter/latch/multiplexer, asynchronous clear		three-state	20	SN74LS691 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1353)
74x692	1	4-bit decimal counter/latch/multiplexer, synchronous clear		three-state	20	SN74LS692 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1353)
74x693	1	4-bit binary counter/latch/multiplexer, synchronous clear		three-state	20	SN74LS693 (https://arch ive.org/details/bitsavers _tidataBookVol2_459453 52/page/n1353)
74x694	1	4-bit decimal counter/latch/multiplexer, synchronous and asynchronous clears		three-state	20	SN74ALS694 (https://ar chive.org/details/bitsave rs_icMaster19_1595694 96/page/n619)
74x695	1	4-bit binary counter/latch/multiplexer, synchronous and asynchronous clears		three-state	20	SN74ALS695 (https://ar chive.org/details/bitsave rs_icMaster19_1595694 96/page/n619)
74x696	1	4-bit decimal counter/register/multiplexer, asynchronous clear		three-state	20	SN74LS696 (http://www. ti.com/lit/gpn/sn74ls697)
74x697	1	4-bit binary counter/register/multiplexer, asynchronous clear		three-state	20	SN74LS697 (http://www. ti.com/lit/gpn/sn74ls697)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x698	1	4-bit decimal counter/register/multiplexer, synchronous clear		three-state	20	SN74LS698 (https://archive.org/details/bitsavers_tidataBookVol2_45945352/page/n1365)
74x699	1	4-bit binary counter/register/multiplexer, synchronous clear		three-state	20	SN74LS699 (http://www.ti.com/lit/gpn/sn74ls697)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x700	1	octal dRAM driver, inverting		three-state	20	SN74S700 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n315)
74x701	1	8-bit register/counter/comparator		three-state	24	74F701 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n615)
74x702	1	8-bit registered read-back transceiver		three-state	24	74F702 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n617)
74x705	1	arithmetic logic unit for digital signal processing applications		three-state	(84)	74ACT705 (https://archive.org/details/bitsavers_fairchilddldFACTLogicDataBook_27153725/page/n349)
74x707	1	8-bit TTL-ECL shift register			20	74F707 (https://archive.org/details/bitsavers_nationaldaFASTDatabook_31226275/page/n621)
74x708	1	576-bit FIFO memory (64x9)		three-state	28	74ACT708 (https://archive.org/details/bitsavers_fairchilddldFACTLogicDataBook_27153725/page/n361)
74x710	1	8-bit single-supply TTL-ECL shift register			20	74F710 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n621)
74x711	5	quint 2-to-1 multiplexers		three-state	20	74F711 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n777)

74x712	5	quint 3-to-1 multiplexers			24	74F712 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n777)
74x715	1	programmable video sync generator			20	74ACT715 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-303/53948.pdf)
74x716	1	programmable decade counter			16	SN74LS716 (https://archive.org/details/bitsavers_motoroladaSchottkyTTLData_33878952/page/n397)
74x718	1	programmable binary counter			16	SN74LS718 (https://archive.org/details/bitsavers_motoroladaSchottkyTTLData_33878952/page/n397)
74x723	1	576-bit FIFO memory (64x9)		three-state	28	74ACT723 (https://archive.org/details/bitsavers_fairchilddldFACTLogicDataBook_27153725/page/n379)
74x724	1	voltage-controlled multivibrator	analog		8	SN74LS724 (https://archive.org/details/bitsavers_motoroladaSchottkyTTLData_33878952/page/n409)
74x725	1	4608-bit FIFO memory (512x9)		three-state	28	74ACT725 (https://archive.org/details/bitsavers_fairchilddldFACTLogicDataBook_27153725/page/n395)
74x730	1	octal dRAM driver, inverting		three-state	20	SN74S730 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n315)
74x731	1	octal dRAM driver, non-inverting		three-state	20	SN74S731 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n315)
74x732	1	4-bit 3-bus multiplexer, inverting		three-state	20	74F732 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n789)
74x733	1	4-bit 3-bus multiplexer, non-inverting		three-state	20	74F733 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n789)
74x734	1	octal dRAM driver, non-inverting		three-state	20	SN74S734 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n315)

74x740	2	dual 4-bit line driver, inverting		three-state	20	SN74S740 (https://datasheet.datasheetarchive.com/originals/scans/Scans-056/DSAIH000137088.pdf)
74x741	2	dual 4-bit line driver, non-inverting, complementary enable inputs		three-state	20	SN74S741 (https://datasheet.datasheetarchive.com/originals/scans/Scans-056/DSAIH000137088.pdf)
74x742	1	octal line driver, inverting		open-collector	20	SN74ALS742[10]:3-122 [11]:25
74x743	1	octal line driver, non-inverting		open-collector	20	SN74ALS743[10]:3-124 [11]:25
74x744	2	dual 4-bit line driver, non-inverting		three-state	20	SN74S744 (https://datasheet.datasheetarchive.com/originals/scans/Scans-056/DSAIH000137088.pdf)
74x746	1	octal buffer / line driver, inverting	20 kΩ pull-up	three-state	20	SN74ALS746 (https://archive.org/details/bitsavers_tidataBooktaBook_60160366/page/n623)
74x747	1	octal buffer / line driver, non-inverting	20 kΩ pull-up	three-state	20	SN74ALS747 (https://archive.org/details/bitsavers_tidataBooktaBook_60160366/page/n623)
74x748	1	8 to 3-line priority encoder (glitch-less)			16	SN74LS748 (https://archive.org/details/bitsavers_motoroladaSchottkyTTLData_33878952/page/n151)
74x756	1	octal buffer/line driver, inverting outputs		open-collector	20	SN74AS756 (http://www.ti.com/lit/gpn/sn54as756)
74x757	1	octal buffer/line driver, non-inverting outputs, complementary enable inputs		open-collector	20	SN74AS757 (http://www.ti.com/lit/gpn/sn54as756)
74x758	1	quadruple bus transceivers, inverting outputs		open-collector	14	SN74AS758 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n527)
74x759	1	quadruple bus transceivers, non-inverting outputs		open-collector	14	SN74AS759 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n527)
74x760	1	octal buffer/line driver, non-inverting outputs		open-collector	20	SN74ALS760 (http://www.ti.com/lit/gpn/sn54as760)
74x762	1	octal buffer/line driver, inverting and non-inverting outputs		open-collector	20	SN74ALS762 (https://web.archive.org/web/20170224211619/http://www.ti.com/lit/ds/symlink/sn74as762.pdf)

74x763	1	octal buffer/line driver, inverting outputs, complementary enable inputs		open-collector	20	SN74ALS763 (https://web.archive.org/web/20170224211619/http://www.ti.com/lit/ds/symlink/sn74as762.pdf)
74x764	1	dual-port dRAM controller			40	74F764 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n795)
74x765	1	dual-port dRAM controller with address latch			40	74F765 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n795)
74x776	1	8-bit latched transceiver for FutureBus		three-state and open-collector	28	SN74F776 (https://archive.org/details/TexasInstruments-TI-Data-AdvancedLogicandBusInterfaceLogic1991OCR/page/n453)
74x777	3	triple latched transceiver		three-state and open-collector	20	74F777 (https://cdn.datasheetspdf.com/pdf-down/7/4/F/74F777_PhilipsSemiconductors.pdf)
74x779	1	8-bit bidirectional binary counter		three-state	16	MC74F779 (https://archive.org/details/bitsavers_motoroladaFASTandLSTTLData_35934218/page/n297)
74x783	1	synchronous address multiplexer for display systems			40	SN74LS783 (https://archive.org/details/bitsavers_motoroladaSchottkyTTLData_33878952/page/n411)
74x784	1	8-bit serial/parallel multiplier with adder/subtractor			20	74F784 (https://archive.org/details/bitsavers_fairchilddldFASTDataBook_29981933/page/n583)
74x785	1	synchronous address multiplexer for display systems with 256-column refresh			40	SN74LS785 (https://cdn.datasheetspdf.com/pdf-down/S/N/7/SN74LS783_MotorolaSemiconductor.pdf)
74x786	1	4-input asynchronous bus arbiter			16	74F786 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n835)
74x790	1	error detection and correction (EDAC)		three-state	48	SN74ALS790 (https://archive.org/details/bitsavers_motoroladaSchottkyTTLData_33878952/page/n629)
74x793	1	8-bit latch, readback			20	SN74LS793 (https://archive.org/stream/MonolithicMemories-MMI-BipolarLSI1984DatabookOCR#page/n433)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x794	1	8-bit register, readback			20	SN74LS794 (https://arch ive.org/stream/Monolithi cMemories-MMI-Bipolar LSI1984DatabookOCR# page/n433)
74x795	1	octal buffer, non-inverting, common enable		three-state	20	SN74LS795 (https://arch ive.org/details/bitsavers _motoroladaSchottkyTT LData_33878952/page/n 437)
74x796	1	octal buffer, inverting, common enable		three-state	20	SN74LS796 (https://arch ive.org/details/bitsavers _motoroladaSchottkyTT LData_33878952/page/n 437)
74x797	1	octal buffer, non-inverting, enable for 4 buffers each		three-state	20	SN74LS797 (https://arch ive.org/details/bitsavers _motoroladaSchottkyTT LData_33878952/page/n 437)
74x798	1	octal buffer, inverting, enable for 4 buffers each		three-state	20	SN74LS798 (https://arch ive.org/details/bitsavers _motoroladaSchottkyTT LData_33878952/page/n 437)
Part number	Units	Description	Input	Output	Pins	Datasheet
74x800	3	triple 4-input AND/NAND drivers		driver	20	SN74AS800 (https://arc hive.org/details/bitsaver s_tidataBookVol3_25840 031/page/n537)
74x802	3	triple 4-input OR/NOR drivers		driver	20	SN74AS802 (https://arc hive.org/details/bitsaver s_tidataBookVol3_25840 031/page/n541)
74x803	4	quad D flip flops with matched propagation delays			14	MC74F803 (https://archi ve.org/details/bitsavers_ motoroladaFASTandLST TLData_35934218/page/ n301)
74x804	6	hex 2-input NAND drivers		driver	20	SN74ALS804A (http://w ww.ti.com/lit/gpn/sn54as 804b)
74x805	6	hex 2-input NOR drivers		driver	20	SN74ALS805A (http://w ww.ti.com/lit/gpn/sn54as 805b)
74x807	1	1-to-10 clock driver		driver	20	IDT74FCT807 (https://ar chive.org/details/bitsave rs_idtdataBoomanceLogi cDataBook_51362967/p age/n569)
74x808	6	hex 2-input AND drivers		driver	20	SN74AS808B (http://ww w.ti.com/lit/gpn/sn74as8 08b)
74x810	4	quad 2-input XNOR gates			14	SN74ALS810 (https://we b.archive.org/web/20170 225141941/http://www.ti.

					com/lit/ds/symlink/sn74 als810.pdf)
74x811	4	quad 2-input XNOR gates		open-collector	14	DM74ALS811 (https://ar chive.org/details/bitsave rs_nationaldaicDatabook _22808448/page/n349)
74x817	1	GTL+ to LV-TTL 1-to-6 fanout / LV-TTL to GTL+ 1-to-2 fanout driver		three-state and open-collector	(24)	SN74GTLP817 (https:// www.ti.com/lit/gpn/SN74 GTLP817)
74x818	1	8-bit diagnostic register		three-state	24	74ACT818 (https://archi ve.org/details/bitsavers_ fairchilddldFACTLogicDa taBook_27153725/page/ n411)
74x819	1	8-bit diagnostic / pipeline register		three-state	24	SN74ALS819 (https://pd f1.alldatasheet.com/data sheet-pdf/view/466541/T I1/SN74ALS819.html)
74x821	1	10-bit bus interface flip-flop		three-state	24	SN74AS821A (http://ww w.ti.com/lit/gpn/sn54as8 21a)
74x822	1	10-bit bus interface flip-flop, inverting inputs		three-state	24	SN74AS822 (https://arc hive.org/details/bitsaver s_tidataBookVol3_25840 031/page/n557)
74x823	1	9-bit D-type flip-flops, clear and clock enable inputs		three-state	24	SN74AS823A (http://ww w.ti.com/lit/gpn/sn54as8 23a)
74x824	1	9-bit D-type flip-flops, clear and clock enable inputs, inverting inputs		three-state	24	SN74AS824 (https://arc hive.org/details/bitsaver s_tidataBookVol3_25840 031/page/n563)
74x825	1	8-bit D-type flip-flop, clear and clock enable inputs		three-state	24	SN74AS825A (http://ww w.ti.com/lit/gpn/sn54as8 25a)
74x826	1	8-bit D-type flip-flop, clear and clock enable inputs, inverting inputs		three-state	24	SN74AS826 (https://arc hive.org/details/bitsaver s_tidataBookVol3_25840 031/page/n569)
74x827	1	10-bit buffer, non-inverting		three-state	24	MC74F827 (https://archi ve.org/details/bitsavers_ motoroladaFASTandLST TLData_35934218/page/ n303)
74x828	1	10-bit buffer, inverting		three-state	24	MC74F828 (https://archi ve.org/details/bitsavers_ motoroladaFASTandLST TLData_35934218/page/ n303)
74x832	6	hex 2-input OR drivers		driver	20	SN74ALS832A (https://w eb.archive.org/web/2017 0221112630/http://www.t i.com/lit/ds/symlink/sn7 4als832a.pdf)

74x833	1	8-bit to 9-bit bus transceiver with parity register, non-inverting		three-state	24	SN74ABT833 (http://www.ti.com/lit/gpn/sn74abt833)
74x834	1	8-bit to 9-bit bus transceiver with parity register, inverting		three-state	24	IDT74FCT834 (https://archive.org/details/bitsavers_idtdataBoomanceCMOSDataBook_66222191/page/n1071)
74x835	1	8-bit shift register with 2:1 input multiplexers, one input latched, serial output			24	74F835 (https://cdn.datasheetspdf.com/pdf-down/7/4/F/74F835_PhilipsSemiconductors.pdf)
74x839	1	field-programmable logic array 14x32x6		three-state	24	SN74PL839 (https://archive.org/details/TexasInstruments-TI-Data-TtlDataBookVol1_1984-DL/page/n259)
74x840	1	field-programmable logic array 14x32x6		open-collector	24	SN74PL840 (https://archive.org/details/TexasInstruments-TI-Data-TtlDataBookVol1_1984-DL/page/n259)
74x841	1	10-bit D-type flip-flop		three-state	24	SN74ALS841 (https://web.archive.org/web/20170225141931/http://www.ti.com/lit/ds/symlink/sn74als841.pdf)
74x842	1	10-bit D-type flip-flop, inverting inputs		three-state	24	SN74ALS842 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n579)
74x843	1	9-bit D flip-flops, clear and set inputs		three-state	24	SN74ALS843 (http://www.ti.com/lit/gpn/sn74als843)
74x844	1	9-bit D flip-flops, clear and set inputs, inverting inputs		three-state	24	SN74ALS844 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n587)
74x845	1	8-bit D flip-flops, clear and set inputs		three-state	24	SN74ALS845 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n595)
74x846	1	8-bit D flip-flops, clear and set inputs, inverting inputs		three-state	24	SN74ALS846 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n595)
74x848	1	8 to 3-line priority encoder (glitch-less)		three-state	16	SN74LS848 (https://archive.org/details/bitsavers_motoroladaSchottkyTTLData_33878952/page/n315)
74x850	1	1 of 16 data selector/multiplexer, clocked select		three-state	28	SN74AS850 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n603)

74x851	1	1 of 16 data selector/multiplexer		three-state	28	SN74AS851 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n603)
74x852	1	8-bit universal transceiver port controller		three-state	24	SN74AS852 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n613)
74x853	1	8-bit to 9-bit bus transceiver with parity latch, non-inverting		three-state	24	SN74ABT853 (http://www.ti.com/lit/gpn/sn74abt853)
74x854	1	8-bit to 9-bit bus transceiver with parity latch, inverting		three-state	24	IDT74FCT854 (https://archive.org/details/bitsavers_idtdataBoomanceCMOSDataBook_66222191/page/n1071)
74x856	1	8-bit universal transceiver port controller		three-state	24	SN74AS856 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n619)
74x857	6	hex 2-line to 1-line multiplexer		three-state	24	SN74ALS857 (http://www.ti.com/lit/gpn/sn54als857)
74x861	1	10-bit bus transceiver, non-inverting		three-state	24	SN74ABT861 (https://archive.org/details/bitsavers_tidataBook_80793740/page/n263)
74x862	1	10-bit bus transceiver, inverting		three-state	24	SN74ABT862 (https://archive.org/details/bitsavers_tidataBook_80793740/page/n269)
74x863	1	9-bit bus transceiver, non-inverting		three-state	24	SN74ABT863 (https://archive.org/details/bitsavers_tidataBook_80793740/page/n273)
74x864	1	9-bit bus transceiver, inverting		three-state	24	74F864 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n867)
74x866	1	8-bit magnitude comparator with latches			24	SN74AS866 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n633)
74x867	1	synchronous 8-bit up/down counter, asynchronous clear			24	SN74ALS867A (http://www.ti.com/lit/gpn/sn74als867a)
74x869	1	synchronous 8-bit up/down counter, synchronous clear			24	SN74ALS869 (http://www.ti.com/lit/gpn/sn74als867a)
74x870	1	dual 16x4 register files			24	SN74AS870 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n645)
74x871	1	dual 16x4 register files			28	SN74AS871 (https://archive.org/details/bitsaver

					s_tidataBookVol3_25840 031/page/n645)
74x873	2	dual 4-bit transparent latch with clear		three-state	24	SN74ALS873B (http://w ww.ti.com/lit/gpn/sn74al s873b)
74x874	2	dual 4-bit edge-triggered D flip-flops with clear		three-state	24	SN74ALS874 (http://ww w.ti.com/lit/gpn/sn74as8 74)
74x876	2	dual 4-bit edge-triggered D flip-flops with set, inverting outputs		three-state	24	SN74ALS876 (http://ww w.ti.com/lit/gpn/sn74as8 74)
74x877	1	8-bit universal transceiver port controller		three-state	24	SN74AS877 (https://arc hive.org/details/bitsaver s_tidataBookVol3_25840 031/page/n663)
74x878	2	dual 4-bit D-type flip-flop, synchronous clear, non-inverting outputs		three-state	24	SN74ALS878 (https://ar chive.org/details/bitsave rs_tidataBookVol3_2584 0031/page/n669)
74x879	2	dual 4-bit D-type flip-flop, synchronous clear, inverting outputs		three-state	24	SN74ALS879 (https://ar chive.org/details/bitsave rs_tidataBookVol3_2584 0031/page/n669)
74x880	2	dual 4-bit transparent latch with clear, inverting outputs		three-state	24	SN74ALS880 (https://ar chive.org/details/bitsave rs_tidataBookVol3_2584 0031/page/n675)
74x881	1	4-bit arithmetic logic unit			24	SN74AS881A (https://ar chive.org/details/bitsave rs_tidataBookVol3_2584 0031/page/n681)
74x882	1	32-bit lookahead carry generator			24	SN74AS882 (https://arc hive.org/details/bitsaver s_tidataBookVol3_25840 031/page/n683)
74x885	1	8-bit magnitude comparator			24	SN74AS885 (https://we b.archive.org/web/20170 403014245/http://www.ti. com/lit/ds/symlink/sn74 as885.pdf)
74x887	1	8-bit processor element (non-cascadable version of 74x888)			(68)	SN74AS887 (https://arc hive.org/details/bitsaver s_tidataBook_28346484/ 1986_LSI_Logic/page/n2 77)
74x888	1	8-bit processor slice			64	SN74AS888 (https://arc hive.org/details/bitsaver s_tidataBook_28346484/ 1986_LSI_Logic/page/n3 25)
74x889	1	8-bit processor slice			(68)	SN74AS889 (https://arc hive.org/details/bitsaver s_tidataBookuitsDataBo ok_32771470/page/n63 7)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x890	1	microoperation sequencer			64	SN74AS890 (https://archive.org/details/bitsavers_tidataBook_28346484/page/n375)
74x891	1	microoperation sequencer			(68)	SN74AS891 (https://archive.org/details/bitsavers_tidataBookuitsDataBook_32771470/page/n685)
74x895	1	8-bit memory address generator			(68)	SN74AS895 (https://archive.org/details/bitsavers_tidataBook_28346484/page/n393)
74x897	1	16-bit parallel/serial barrel shifter			(68)	SN74AS897A (https://archive.org/details/bitsavers_tidataBook_28346484/page/n443)
74x899	1	9-bit latchable transceiver with parity generator / checker		three-state	(28)	74AC899 (https://archive.org/details/bitsavers_nationaldaFACTDatabook_39311242/page/n431)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x900	4	quad 2-input NAND gate		driver	14	SN74ALS900 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0051456.pdf)
74x901	6	hex inverting TTL buffer			14	MM74C901 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n93)
74C902	6	hex non-inverting TTL buffer			14	MM74C902 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n93)
74ALS902	4	quad 2-input NOR gate		driver	14	SN74ALS902 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-111/DSAP0036721.pdf)
74C903	6	hex inverting PMOS buffer			14	MM74C903 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n93)
74ALS903	4	quad 2-input NAND gate		open-collector driver	14	SN74ALS903 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-111/DSAP0036722.pdf)
74x904	6	hex non-inverting PMOS buffer			14	MM74C904 (https://archive.org/details/bitsavers_nationaldaCMOSIntegrat

					edCircuits_16413029/page/n93)
74x905	1	12-bit successive approximation register			24	MM74C905 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n97)
74x906	6	hex open drain n-channel buffers		open-collector	14	MM74C906 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n103)
74x907	6	hex open drain p-channel buffers			14	MM74C907 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n103)
74x908	2	dual 2-input NAND 30 V / 250 mA relay driver			8	MM74C908 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n105)
74x909	4	quad voltage comparator	analog	open-collector	14	MM74C909 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n109)
74x910	1	256-bit RAM (64x4)		three-state	18	MM74C910 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n115)
74x911	1	4-digit expandable display controller		three-state	28	MM74C911 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n135)
74x912	1	6-digit BCD display controller and driver		three-state	28	MM74C912 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n135)
74x913	1	6-digit BCD display controller and driver, no decimal point			24	MM74C913 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n135)
74x914	6	hex inverter gate, extended input voltage	Schmitt trigger		14	MM74C914 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n117)
74x915	1	7-segment to BCD converter		three-state	18	MM74C915 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n141)

74x917	1	6-digit hex display controller and driver		three-state	28	MM74C917 (https://archive.org/details/bitsavers_nationaldaLogicDatabookVolume1_95500749/page/n1333)
74x918	2	dual 2-input NAND 30 V / 250 mA relay driver			14	MM74C918 (https://archive.org/details/bitsavers_nationaldaCMOSIntegratedCircuits_16413029/page/n105)
74x920	1	1024-bit RAM (256x4), separate data inputs and outputs		three-state	22	MM74C920 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n145)
74x921	1	1024-bit RAM (256x4)		three-state	18	MM74C921 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n145)
74x922	1	16-key encoder		three-state	18	MM74C922 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n149)
74x923	1	20-key encoder		three-state	20	MM74C923 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n149)
74x925	1	4-digit counter/display driver			16	MM74C925 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n155)
74x926	1	4-digit decade counter/display driver, carry out and latch (up to 9999)			16	MM74C926 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n155)
74x927	1	4-digit timer counter/display driver (up to 9599, intended as time elapsed, i.e. 9:59.9 min)			16	MM74C927 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n155)
74x928	1	4-digit counter/display driver (up to 1999)			16	MM74C928 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n155)
74x929	1	1024-bit RAM (1024x1), single chip select		three-state	16	MM74C929 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n155)
74x930	1	1024-bit RAM (1024x1), three chip selects		three-state	18	MM74C930 (https://archive.org/details/bitsavers_

					nationaldaCMOSDataboo k_23595721/page/n15 5)
74x932	1	phase comparator			8	MM74C932 (https://archi ve.org/details/bitsavers_ nationaldaLogicDataboo kVolume1_95500749/pa ge/n1305)
74x933	1	7-bit address bus comparator			20	MM74C933 (https://archi ve.org/stream/NationalS emiconductor-CMOSDat abook1981#page/n5)
74934	1	ADC similar to ADC0829, see corresponding NSC datasheet				
74x935	1	ADC for 3.5-digit digital voltmeters, multiplexed 7-segment display outputs	analog		28	MM74C935 (https://archi ve.org/details/bitsavers_ nationaldaCMOSDatabo ok_23595721/page/n16 3)
74x936	1	ADC for 3.75-digit digital voltmeters, multiplexed 7-segment display outputs	analog		?	MM74C936 (https://archi ve.org/details/bitsavers_ nationaldaCMOSDatabo ok_23595721/page/n17 1)
74x937	1	ADC for 3.5-digit digital voltmeters, multiplexed BCD outputs	analog		24	MM74C937 (https://archi ve.org/details/bitsavers_ nationaldaDataAcquisitio nHandbook_38492992/p age/n83)
74x938	1	ADC for 3.75-digit digital voltmeters, multiplexed BCD outputs	analog		24	MM74C938 (https://archi ve.org/details/bitsavers_ nationaldaDataAcquisitio nHandbook_38492992/p age/n83)
74x940	1	octal bus/line drivers/line receivers	Schmitt trigger	three-state	20	DM74S940 (https://archi ve.org/stream/NationalS emiconductorLogicDatab ook1981/National%20Se miconductor%20Logic% 20Databook%201981#pa ge/n161)
74x941	1	octal bus/line drivers/line receivers	Schmitt trigger	three-state	20	DM74S941 (https://archi ve.org/stream/NationalS emiconductorLogicDatab ook1981/National%20Se miconductor%20Logic% 20Databook%201981#pa ge/n161)
74x942	1	300 baud Bell 103 modem (+/- 5 V supply)			20	MM74HC942 (https://arc hive.org/details/bitsaver s_nationaldaLogicDatab ookVolume1_95500749/ page/n639)
74x943	1	300 baud Bell 103 modem (single 5 V supply)			20	MM74HC943 (https://arc hive.org/details/bitsaver s_nationaldaLogicDatab

					ookVolume1_95500749/page/n645)
74x945	1	4-digit up/down counter, decoder and LCD driver, output latch			40	MM74C945 (https://archive.org/details/bitsavers_nationaldaLogicDatabookVolume1_95500749/page/n1343)
74x946	1	4.5-digit counter, decoder and LCD driver, leading zero blanking			40	MM74C946 (https://archive.org/details/bitsavers_nationaldaLogicDatabookVolume1_95500749/page/n1351)
74x947	1	4-digit up/down counter, decoder and LCD driver, leading zero blanking			40	MM74C947 (https://archive.org/details/bitsavers_nationaldaLogicDatabookVolume1_95500749/page/n1343)
74x948	1	8-bit ADC with 16-channel analog multiplexer	analog	three-state	40	MM74C948 (https://archive.org/details/bitsavers_nationaldaDataAcquisitionHandbook_38492992/page/n63)
74x949	1	8-bit ADC with 8-channel analog multiplexer	analog	three-state	28	MM74C949 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n173)
74x950	1	8-bit ADC with 8-channel analog multiplexer and sample and hold	analog	three-state	28	MM74C950 (https://archive.org/details/bitsavers_nationaldaCMOSDatabook_23595721/page/n173)
74x952	1	dual rank 8-bit shift register, synchronous clear		three-state	18	DM74LS952 (https://archive.org/stream/NationalSemiconductorLogicDatabook1981/National%20Semiconductor%20Logic%20Databook%201981#page/n417)
74C956	1	4-digit, 17-segment alpha-numeric LED display driver with memory and decoder			40	MM74C956 (https://archive.org/details/bitsavers_nationaldaLogicDatabookVolume1_95500749/page/n1357)
74BCT956	1	octal bus transceiver and latch		three-state	24	SN74BCT956 (https://datasheetspdf.com/pdf-file/1271601/Texas/SN74BCT956/1)
74x962	1	dual rank 8-bit shift register, register exchange mode		three-state	18	DM74LS962 (https://archive.org/stream/NationalSemiconductorLogicDatabook1981/National%20Semiconductor%20Logic%20Databook%201981#page/n417)
74x963	1	dual rank 8-bit shift register, synchronous clear		three-state	20	SN74ALS963 (https://archive.org/details/bitsave

					rs_tidataBook_2834648 4/page/n461)
74x964	1	dual rank 8-bit shift register, synchronous and asynchronous clear		three-state	20	SN74ALS964 (https://archive.org/details/bitsavers_tidataBook_2834648 4/page/n461)
74x968	1	controller/driver for 16k/64k/256k/1M dRAM			52	74F968 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n655)
74x978	1	octal flip-flop with serial scanner			24	74F978 (https://archive.org/stream/NationalSemiconductor1988FASTAdvancedSchottkyDatabook/National%20Semiconductor%201988%20FAST%20Advanced%20Schottky%20Databook#page/n667)
74x979	1	9-bit registered transceiver with parity generator/checker for FutureBus		three-state and open-collector	(48)	SN74BCT979 (https://archive.org/details/TexasInstruments-TI-Data-AdvancedLogicandBusInterfaceLogic1991OCR/page/n447)
74x989	1	64-bit RAM (64x4), inverting output		three-state	16	MM74C989 (https://archive.org/details/bitsavers_nationaldaLogicDatabookVolume1_95500749/page/n1313)
74x990	1	8-bit D-type transparent read-back latch, non-inverting		three-state	20	SN74ALS990 (http://www.ti.com/lit/gpn/sn74als990)
74x991	1	8-bit D-type transparent read-back latch, inverting		three-state	20	SN74ALS991 (https://archive.org/details/bitsavers_tidataBook_2834648 4/page/n473)
74x992	1	9-bit D-type transparent read-back latch, non-inverting		three-state	24	SN74ALS992 (http://www.ti.com/lit/gpn/sn74als992)
74x993	1	9-bit D-type transparent read-back latch, inverting		three-state	24	SN74ALS993 (https://archive.org/details/bitsavers_tidataBook_2834648 4/page/n481)
74x994	1	10-bit D-type transparent read-back latch, non-inverting		three-state	24	SN74ALS994 (https://archive.org/details/bitsavers_tidataBook_2834648 4/page/n489)
74x995	1	10-bit D-type transparent read-back latch, inverting		three-state	24	SN74ALS995 (https://archive.org/details/bitsavers_tidataBook_2834648 4/page/n489)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x996	1	8-bit D-type edge-triggered read-back latch		three-state	24	SN74ALS996 (http://www.ti.com/lit/gpn/sn74als996)
74x1000	4	quad 2-input NAND gate		driver	14	SN74AS1000A (http://www.ti.com/lit/gpn/sn54as1000a)
74x1002	4	quad 2-input NOR gate		driver	14	SN74ALS1002A (http://www.ti.com/lit/gpn/sn54als1002a)
74x1003	4	quad 2-input NAND gate		open-collector driver	14	SN74ALS1003A (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n701)
74x1004	6	hex inverting buffer		driver	14	SN74ALS1004 (http://www.ti.com/lit/gpn/sn74als1004)
74x1005	6	hex inverting buffer		open-collector driver	14	SN74ALS1005 (http://www.ti.com/lit/gpn/sn74als1005)
74x1008	4	quad 2-input AND gate		driver	14	SN74AS1008A (http://www.ti.com/lit/gpn/sn74as1008a)
74ALS1010	3	triple 3-input NAND gate		driver	14	SN74ALS1010A (https://web.archive.org/web/20170225141918/http://www.ti.com/lit/ds/symlink/sn74als1010a.pdf)
74AC1010, 74ACT1010	1	16x16-bit multiplier/accumulator		three-state	64	74AC1010 (https://archive.org/details/bitsavers_fairchilddldFACTLogicDataBook_27153725/page/n457)
74x1011	3	triple 3-input AND gate		driver	14	SN74ALS1011A (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n715)
74F1016	16	16-bit Schottky diode R-C bus termination array			(20)	SN74F1016 (http://www.ti.com/lit/gpn/sn74f1016)
74AC1016, 74ACT1016	1	16x16-bit multiplier		three-state	64	74AC1016 (https://archive.org/details/bitsavers_fairchilddldFACTLogicDataBook_27153725/page/n467)
74x1017	1	16x16-bit parallel multiplier		three-state	64	74AC1017 (https://archive.org/details/bitsavers_fairchilddldFACTLogicDataBook_27153725/page/n479)
74x1018	18	18-bit Schottky diode R-C bus termination array			(24)	SN74F1018 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-36/DSA-706945.pdf)

74x1020	2	dual 4-input NAND gate		driver	14	SN74ALS1020A (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n717)
74x1032	4	quad 2-input OR gate		driver	14	SN74AS1032A (https://web.archive.org/web/20170221113739/http://www.ti.com/lit/ds/symlink/sn74as1032a.pdf)
74x1034	6	hex non-inverting buffer		driver	14	SN74ALS1034 (http://www.ti.com/lit/gpn/sn54als1034)
74x1035	6	hex non-inverting buffer		open-collector driver	14	SN74ALS1035 (http://www.ti.com/lit/gpn/sn54als1035)
74x1036	4	quad 2-input NOR gate		driver	14	SN74ALS1036 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n729)
74x1050	12	12-bit Schottky diode bus termination array, clamp to GND			16	SN74S1050 (http://www.ti.com/lit/gpn/sn74s1050)
74x1051	12	12-bit Schottky diode bus termination array, clamp to GND/V_{CC}			16	SN74S1051 (http://www.ti.com/lit/gpn/sn74s1051)
74x1052	16	16-bit Schottky diode bus termination array, clamp to GND			20	SN74S1052 (https://archive.org/details/TexasInstruments-TI-Data-AdvancedLogicandBusInterfaceLogic1991OCR/page/n471)
74x1053	16	16-bit Schottky diode bus termination array, clamp to GND/V_{CC}			20	SN74S1053 (http://www.ti.com/lit/gpn/sn74s1053)
74x1056	8	8-bit Schottky diode bus termination array, clamp to GND			(16)	SN74F1056 (http://www.ti.com/lit/gpn/sn74f1056)
74x1071	10	10-bit bus termination array with bus-hold function			(14)	SN74ACT1071 (http://www.ti.com/lit/gpn/sn74act1071)
74x1073	16	16-bit bus termination array with bus-hold function			(20)	SN74ACT1073 (http://www.ti.com/lit/gpn/sn74act1073)
74x1074	2	dual D negative edge triggered flip-flop, asynchronous preset and clear			14	74FR1074 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-11/DSA-210975.pdf)
74x1181	1	4-bit arithmetic logic unit			24	SN74AS1181 (https://archive.org/details/bitsavers_tidataBook_28346484/page/n503)

74x1240	1	octal buffer / line driver, inverting (lower-power version of 74x240)		three-state	20	SN74ALS1240 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n731)
74x1241	1	octal buffer / line driver, non-inverting (lower-power version of 74x241)		three-state	20	SN74ALS1241 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n731)
74x1242	1	quad bus transceiver, inverting (lower-power version of 74x242)		three-state	14	SN74ALS1242 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n735)
74x1243	1	quad bus transceiver, non-inverting (lower-power version of 74x243)		three-state	14	SN74ALS1243 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n735)
74x1244	1	octal buffer / driver, non-inverting (lower-power version of 74x244)		three-state	20	SN74ALS1244 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n739)
74x1245	1	octal bus transceiver (lower-power version of 74x245)		three-state	20	SN74ALS1245A (http://www.ti.com/lit/gpn/sn74als1245a)
74x1280	1	9-bit parity generator/checker with registered outputs		three-state	20	QS74FCT1280 (https://web.archive.org/web/20181117162114/https://4donline.ihs.com/images/VipMasterIC/IC/QSEM/QSEMD004/QSEMD004-3-71.pdf)
74x1284	1	parallel printer interface transceiver / buffer (IEEE 1284)			20	74HCT1284 (http://pdf.datasheetcatalog.com/datasheet/philips/74HCT1284PW.pdf)
74x1394	1	2-bit GTLP transceiver with split LV-TTL port		three-state and open-collector	(16)	SN74GTLP1394 (https://www.ti.com/lit/gpn/SN74GTLP1394)
74x1395	2	Dual 1-bit GTLP transceiver with split LV-TTL port		three-state and open-collector	(20)	SN74GTLP1395 (https://www.ti.com/lit/gpn/SN74GTLP1395)
74x1403	1	8-bit bus receiver plus 4-bit bus driver	Schmitt trigger	three-state	(32)	74LVT1403 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-25/DSA-497532.pdf)
74x1404	1	oscillator driver	Schmitt trigger		(8)	SN74LVC1404 (http://www.ti.com/lit/gpn/sn74lvc1404)
74x1604	1	dual 8-bit transparent latch with output multiplexer			28	74F1604 (https://cdn.datasheetspdf.com/pdf-down/7/4/F/74F1604_PhilipsSemiconductors.pdf)

74x1612	1	18-bit LV-TTL-to-GTLP adjustable-edge-rate universal bus transceiver		three-state and open-collector	(64)	SN74GTLPH1612 (https://e2e.ti.com/cfs-file/__key/communityserver-discussions-components-files/151/SN74GTLPH1612-Rev2005.pdf)
74ALS1616	1	16x16-bit multimode multiplier		three-state	64	SN74ALS1616 (https://archive.org/details/bitsavers_icMaster19_159569496/page/n919)
74GTLPH1616	1	17-bit LV-TTL-to-GTLP adjustable-edge-rate universal bus transceiver with buffered clock outputs		three-state and open-collector	(64)	SN74GTLPH1616 (https://media.digikey.com/pdf/Data%20Sheets/Texas%20Instruments%20PDFs/sn74gtlph1616.pdf)
74x1620	1	octal bus transceiver, inverting		three-state	20	SN74ALS1620 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n747)
74x1621	1	octal bus transceiver, non-inverting		open-collector	20	SN74ALS1621 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n747)
74x1622	1	octal bus transceiver, inverting		open-collector	20	SN74ALS1622 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n747)
74x1623	1	octal bus transceiver, non-inverting		three-state	20	SN74ALS1623 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n747)
74x1627	1	18-bit LV-TTL-to-GTLP adjustable-edge-rate bus transceiver with source synchronous clock outputs		three-state and open-collector	(64)	SN74GTLPH1627 (https://media.digikey.com/pdf/Data%20Sheets/Texas%20Instruments%20PDFs/sn74gtlph1627%5b1%5d.pdf)
74x1631	1	quad bus driver with complementary outputs		three-state	16	SN74ALS1631[10]: 3-336
74x1638	1	octal bus transceiver, inverting (lower-power version of 74x638)		three-state and open-collector	20	SN74ALS1638 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n753)
74x1639	1	octal bus transceiver, non-inverting (lower-power version of 74x639)		three-state and open-collector	20	SN74ALS1639 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n753)
74x1640	1	octal bus transceiver, inverting (lower-power version of 74x640)		three-state	20	SN74ALS1640A (http://www.ti.com/lit/gpn/sn74als1645a)
74x1641	1	octal bus transceiver, non-inverting (lower-power version of 74x641)		open-collector	20	SN74ALS641 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n757)

74x1642	1	octal bus transceiver, inverting (lower-power version of 74x642)		open-collector	20	SN74ALS642 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n757)
74x1643	1	octal bus transceiver, inverting and non-inverting (lower-power version of 74x643)		three-state	20	SN74ALS643 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n757)
74x1644	1	octal bus transceiver, inverting and non-inverting (lower-power version of 74x644)		open-collector	20	SN74ALS644 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n757)
74ALS1645	1	octal bus transceiver, non-inverting (lower-power version of 74x645)		three-state	20	SN74ALS1645A (http://www.ti.com/lit/gpn/sn74als1645a)
74GTLPH1645	1	16-bit LV-TTL-to-GTLP adjustable-edge-rate bus transceiver		three-state and open-collector	(56)	SN74GTLPH1645 (https://www.ti.com/lit/gpn/sn74gtlph1645)
74x1650	2	dual 9-bit Futurebus universal storage transceiver with split TTL I/O		three-state and open-collector	(100)	SN74FB1650 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n689)
74x1651	2	9-bit and 8-bit Futurebus universal storage transceivers with delayed buffered clock with split TTL I/O		three-state and open-collector	(100)	SN74FB1651 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-36/DSA-703111.pdf)
74x1653	2	9-bit and 8-bit Futurebus universal storage transceivers with delayed buffered clock with split 3.3V TTL I/O		three-state and open-collector	(100)	SN74FB1653 (http://www.ti.com/lit/gpn/SN74FB1653)
74x1655	2	dual 8-bit GTL universal storage transceivers with live insertion		three-state and open-collector	(64)	SN74GTL1655 (http://www.ti.com/lit/gpn/SN74GTL1655)
74x1760	1	10-bit 4-way latched address multiplexer		three-state	64	74F1760 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-111/DSAP0034403.pdf)
74x1761	1	dRAM and interrupt vector controller			48	74F1761 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n911)
74x1762	1	dRAM address controller			40	74F1762 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n913)
74x1763	1	single-port dRAM controller			48	74F1763 (https://archive.org/details/bitsavers_s

					igneticsdaManual_57966 640/page/n915)
74x1764	1	dual-port dRAM controller			48	74F1764 (https://archiv e.org/details/bitsavers_s igneticsdaManual_57966 640/page/n917)
74x1765	1	dual-port dRAM controller with address latch			48	74F1765 (https://archiv e.org/details/bitsavers_s igneticsdaManual_57966 640/page/n917)
74x1766	1	burst mode dRAM controller			48	74F1766 (https://datash eet.datasheetarchive.co m/originals/scans/Scans -054/DSAIH00097122.pd f)
74x1779	1	8-bit bidirectional binary counter		three- state	16	74F1779 (https://cdn.dat asheetspdf.com/pdf-dow n/7/4/F/74F1779_Philips Semiconductors.pdf)
74x1801	1	FM, MFM, and DM encoder / decoder, data rates up to 10 MHz			24	74LS1801 (https://datas heet.datasheetarchive.c om/originals/scans/Scan s-002/Scans-0052487.pd f)
74x1802	1	SerDes with ECC and CRC, data rates up to 10 MHz		three- state	48	74LS1802 (https://4donli ne.ihs.com/images/VipM asterIC/IC/SIGC/SIGCD 005/SIGCD005-7-26.pdf)
74x1803	1	quad clock driver			14	MC74F1803 (https://arch ive.org/details/bitsavers _motoroladaFASTandLS TTLData_35934218/pag e/n309)
74x1804	6	hex 2-input NAND		driver	20	DM74AS1804 (https://ar chive.org/details/bitsave rs_nationaldaicDatabook _22808448/page/n639)
74x1805	6	hex 2-input NOR		driver	20	DM74AS1805 (https://ar chive.org/details/bitsave rs_nationaldaicDatabook _22808448/page/n641)
74x1808	6	hex 2-input AND		driver	20	DM74AS1808 (https://ar chive.org/details/bitsave rs_nationaldaicDatabook _22808448/page/n643)
74x1811	1	FM, MFM, and DM encoder / decoder, data rates up to 20 MHz			24	74LS1811 (https://4donli ne.ihs.com/images/VipM asterIC/IC/SIGC/SIGCD 005/SIGCD005-7-36.pdf)
74x1812	1	SerDes with ECC and CRC, data rates up to 30 MHz		three- state	48	74LS1812 (https://4donli ne.ihs.com/images/VipM asterIC/IC/SIGC/SIGCD 005/SIGCD005-7-37.pdf)
74x1821	1	10-bit bus interface flip-flops		three- state	24	SN74AS1821 (http://ww w.elektronikjk.pl/element

Part number	Units	Description	Input	Output	Pins	Datasheet
				three-state	24	y_czynne/IC/SN74AS1821.pdf)
74x1823	1	9-bit bus interface flip-flops with clear		three-state	24	SN74AS1823 (https://datasheet.datasheetarchive.com/originals/scans/Scans-067/DSA2IH00218035.pdf)
74x1832	6	hex 2-input OR		driver	20	DM74ALS1832 (https://archive.org/details/bitsavers_nationaldaicDatabook_22808448/page/n645)
74x1841	1	10-bit bus interface transparent latches		three-state	24	SN74AS1841 (https://datasheet.datasheetarchive.com/originals/scans/Scans-067/DSA2IH00218036.pdf)
74x1843	1	9-bit bus interface transparent latches with clear		three-state	24	SN74AS1843 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-36/DSA-706295.pdf)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x2000	1	direction discriminator with microprocessor interface		three-state	28	SN74LS2000 (https://datasheet.datasheetarchive.com/originals/scans/Scans-110/22.pdf)
74x2003	1	8-bit level translator			(20)	SN74GTL2003 (http://www.ti.com/lit/gpn/SN74GTL2003)
74x2006	1	13-bit GTL to 3.3V TTL level translator		open-collector	(28)	SN74GTL2006 (http://www.ti.com/lit/gpn/SN74GTL2006)
74x2007	1	12-bit GTL to 3.3V TTL level translator		open-collector	(28)	SN74GTL2007 (http://www.ti.com/lit/gpn/SN74GTL2007)
74x2010	1	10-bit level translator			(24)	SN74GTL2010 (http://www.ti.com/lit/gpn/SN74GTL2010)
74x2014	1	4-bit GTL to TTL transceiver		three-state and open-collector	(14)	SN74GTL2014 (http://www.ti.com/lit/gpn/SN74GTL2014)
74x2031	1	9-bit Futurebus address/data transceiver		three-state and open-collector	(48)	SN74FB2031 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n695)
74x2032	1	9-bit Futurebus competition transceiver		three-state and open-collector	(48)	SN74FB2032 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n701)
74FB2033	1	8-bit Futurebus registered transceiver with split TTL I/O		three-state and	(52)	SN74FB2033 (https://archive.org/details/bitsavers_tidataBookiCMOSTec

				open-collector		hnologyDataBook_40217042/page/n709)
74GTLP2033	1	8-bit GTLP registered transceiver with split LV-TTL I/O		three-state and open-collector	(48)	SN74GTLP2033 (https://www.ti.com/lit/gpn/SN74GTLP2033)
74x2034	1	8-bit GTLP adjustable-edge-rate registered transceiver with split LV-TTL I/O		three-state and open-collector	(48)	SN74GTLP2034 (https://media.digikey.com/pdf/Data%20Sheets/Texas%20Instruments%20PDFs/sn74gtlp2034%5b1%5d.pdf)
74x2040	1	8-bit Futurebus transceiver with split TTL I/O		three-state and open-collector	(48)	SN74FB2040 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n719)
74x2041	1	7-bit Futurebus transceiver with split TTL I/O		three-state and open-collector	(52)	SN74FB2041 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n725)
74x2107	1	12-bit GTL to 3.3V TTL level translator		open-collector	(28)	SN74GTL2107 (http://www.ti.com/lit/gpn/SN74GTL2107)
74x2125	4	quad bus buffer		three-state, 25 Ω series resistor	(14)	TC74VCX2125 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-2/DSA-33230.pdf)
74x2140	1	8k x 18 cache data RAM		three-state	(52)	SN74ACT2140A (https://usermanual.wiki/Document/1990TICacheMemoryManagementDataBook.1210032352.pdf)
74x2150	1	512 x 8 cache address comparator			24	SN74ACT2150A (https://usermanual.wiki/Document/1990TICacheMemoryManagementDataBook.1210032352.pdf)
74ACT2151	1	1k x 11 cache address comparator			28	SN74ACT2151 (https://usermanual.wiki/Document/1990TICacheMemoryManagementDataBook.1210032352.pdf)
74FCT2151	1	8-line to 1-line multiplexer		25 Ω series resistor	(16)	CD74FCT2151 (https://archive.org/details/bitsavers_harrisdataCTLogic_25505286/page/n187)
74x2152	1	2k x 8 cache address comparator			28	SN74ACT2152A (https://usermanual.wiki/Document/1990TICacheMemoryManagementDataBook.1210032352.pdf)
74ACT2153	1	1k x 11 cache address comparator		open-collector	28	SN74ACT2153 (https://usermanual.wiki/Docume

					nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74FCT2153	2	dual 4-line to 1-line multiplexer		25 Ω series resistor	(16)	CD74FCT2153 (https://a rchive.org/details/bitsav ers_harrisdataCTLogic_2 5505286/page/n191)
74x2154	1	2k x 8 cache address comparator		open-collector	28	SN74ACT2154A (https:// usermanual.wiki/Docum ent/1990TICacheMemor yManagementDataBook. 1210032352.pdf)
74x2155	1	2k x 8 burst cache address comparator		three-state	(44)	SN74ACT2155 (https://u sermanual.wiki/Docume nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74x2156	1	16k x 4 burst cache address comparator		three-state	(44)	SN74ACT2156 (https://u sermanual.wiki/Docume nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74ACT2157	1	2k x 16 cache address comparator		three-state	(44)	SN74ACT2157 (https://u sermanual.wiki/Docume nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74FCT2157	4	quad 2-line to 1-line multiplexer		25 Ω series resistor	(16)	CD74FCT2157 (https://a rchive.org/details/bitsav ers_harrisdataCTLogic_2 5505286/page/n197)
74x2158	1	8k x 9 cache address comparator		three-state	(44)	SN74ACT2158 (https://u sermanual.wiki/Docume nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74x2159	1	8k x 9 cache address comparator		three-state	(44)	SN74ACT2159 (https://u sermanual.wiki/Docume nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74x2160	1	8k x 4 2-way cache address comparator		three-state	(32)	SN74ACT2160 (https://u sermanual.wiki/Docume nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74x2161	1	synchronous presettable 4-bit binary counter, asynchronous clear		25 Ω series resistor	16	QS74FCT2161T (https:// archive.org/details/Qualit ySemiconductor-1991Da tabookOCR/page/n313)
74ACT2163, 74BCT2163	1	16k x 5 cache address comparator		three-state	(32)	SN74ACT2163 (https://u sermanual.wiki/Docume nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74FCT2163	1	synchronous presettable 4-bit binary counter,		25 Ω series	16	QS74FCT2163T (https:// archive.org/details/Qualit

		synchronous clear		resistor		ySemiconductor-1991Da tabookOCR/page/n313)
74x2164	1	16k x 5 cache address comparator		three-state	(32)	SN74ACT2164 (https://u sermanual.wiki/Docume nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74x2166	1	16k x 5 cache address comparator with input latches		three-state	(32)	SN74BCT2166 (https://u sermanual.wiki/Docume nt/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74x2191	1	synchronous presettable 4-bit binary up/down counter, common clock		25 Ω series resistor	16	QS74FCT2191T (https:// archive.org/details/Qualit ySemiconductor-1991Da tabookOCR/page/n321)
74x2193	1	synchronous presettable 4-bit binary counter, separate up/down clocks		25 Ω series resistor	16	QS74FCT2193T (https:// archive.org/details/Qualit ySemiconductor-1991Da tabookOCR/page/n329)
74x2226	2	dual 64-bit FIFO memories (64x1)			(24)	SN74ACT2226 (http://w ww.ti.com/lit/gpn/sn74ac t2226)
74x2227	2	dual 64-bit FIFO memories (64x1)		three-state	(28)	SN74ACT2227 (http://w ww.ti.com/lit/gpn/sn74ac t2227)
74x2228	2	dual 256-bit FIFO memories (256x1)			(24)	SN74ACT2228 (http://w ww.ti.com/lit/gpn/sn74ac t2226)
74x2229	2	dual 256-bit FIFO memories (256x1)		three-state	(28)	SN74ACT2229 (http://w ww.ti.com/lit/gpn/sn74ac t2227)
74x2232	1	512-bit FIFO memory (64x8)		three-state	24	SN74ALS2232A (https:// archive.org/details/bitsa vers_tidataBookeFIFOM emoriesDatabook_63352 841/page/n167)
74x2233	1	576-bit FIFO memory (64x9)		three-state	28	SN74ALS2233A (https:// archive.org/details/bitsa vers_tidataBookeFIFOM emoriesDatabook_63352 841/page/n175)
74x2235	1	18432-bit bidirectional FIFO memory (2x1024x9)		three-state	(44)	SN74ACT2235 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDatabook_633528 41/page/n203)
74x2236	1	18432-bit bidirectional FIFO memory (2x1024x9)		three-state	(44)	SN74ACT2236 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDatabook_633528 41/page/n215)
74x2238	1	576-bit bidirectional FIFO memory (2x32x9)		three-state	40	SN74ALS2238 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe

					moriesDatabook_633528 41/page/n157)
74x2240	2	dual 4-bit bidirectional buffer / line driver, inverting		three-state, 25 Ω series resistor	20	SN74BCT2240 (https://a rchive.org/details/bitsav ers_tidataBookerfaceLog icDataBook_4501982/pa ge/n81)
74x2241	2	dual 4-bit bidirectional buffer / line driver, non-inverting		three-state, 25 Ω series resistor	20	SN74BCT2241 (https://a rchive.org/details/bitsav ers_tidataBookerfaceLog icDataBook_4501982/pa ge/n85)
74x2242	1	4-bit bus transceiver, inverting		three-state, 25 Ω series resistor	14	SN74ALS2242 (https://a rchive.org/details/bitsav ers_tidataBooktaBook_6 0160366/page/n951)
74x2243	1	4-bit bus transceiver, non-inverting		three-state, 25 Ω series resistor	(14)	74F2243 (https://datash eet.datasheetarchive.co m/originals/distributors/D atasheets-11/DSA-2097 24.pdf)
74x2244	2	dual 4-bit buffer / line driver, non-inverting		three-state, 25 Ω series resistor	20	SN74BCT2244 (https://a rchive.org/details/bitsav ers_tidataBookerfaceLog icDataBook_4501982/pa ge/n89)
74x2245	1	octal bus transceiver		three-state, 25 Ω series resistor	20	SN74ABT2245 (https://a rchive.org/details/bitsav ers_tidataBookiCMOSTe chnologyDataBook_4021 7042/page/n599)
74x2253	2	dual 4-line to 1-line multiplexer		three-state, 25 Ω series resistor	(16)	CD74FCT2253 (https://a rchive.org/details/bitsav ers_harrisdataCTLogic_2 5505286/page/n191)
74x2257	4	quad 2-line to 1-line multiplexer		three-state, 25 Ω series resistor	(16)	CD74FCT2257 (https://a rchive.org/details/bitsav ers_harrisdataCTLogic_2 5505286/page/n197)
74x2273	8	octal D-type flip-flop with common clock and reset		25 Ω series resistor	(20)	CD74FCT2273 (https://a rchive.org/details/bitsav ers_harrisdataCTLogic_2 5505286/page/n215)
74x2299	1	8-bit universal shift register		three-state, 25 Ω series resistor	20	QS74FCT2299T (https:// archive.org/details/Qualit ySemiconductor-1991Da tabookOCR/page/n363)
74x2323	2	dual line receiver	analog		(8)	SN74LS2323 (http://ww w.ti.com/lit/gpn/sn74ls23 23)
74x2373	1	8-bit transparent latch		three-state, 25 Ω	(20)	CD74FCT2373 (https://a rchive.org/details/bitsav

				series resistor	ers_harrisdataCTLogic_25505286/page/n219)
74x2374	8	octal D-type flip-flop with common clock		three-state, 25 Ω series resistor	(20)	CD74FCT2374 (https://archive.org/details/bitsavers_harrisdataCTLogic_25505286/page/n227)
74x2377	1	8-bit register with clock enable		25 Ω series resistor	20	QS74FCT2377T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n381)
74x2400	2	dual 4-bit buffer, inverting	Schmitt trigger	three-state	20	74THC2400 (http://www.ic72.com/pdf_file/i/189451.pdf)
74x2410	1	11-bit MOS memory driver, non-inverting		three-state, 25 Ω series resistor	28	SN74BCT2410 (https://archive.org/details/TexasInstruments-TI-Data-AdvancedLogicandBusInterfaceLogic1991OCR/page/n747)
74x2411	1	11-bit MOS memory driver, inverting		three-state, 25 Ω series resistor	28	SN74BCT2411 (https://archive.org/details/TexasInstruments-TI-Data-AdvancedLogicandBusInterfaceLogic1991OCR/page/n749)
74x2414	2	dual 2-to-4 line decoder with supply voltage monitor			20	SN74BCT2414 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-17/DSA-337707.pdf)
74x2420	1	16-bit NuBus address/data transceiver and register		three-state	(68)	SN74BCT2420 (https://archive.org/details/bitsavers_tidataBookProducts_10042209/page/n29)
74x2423	1	16-bit latched multiplexer/demultiplexer NuBus transceiver, inverting		three-state	(68)	SN74BCT2423 (https://archive.org/details/bitsavers_tidataBookProducts_10042209/page/n39)
74x2424	1	16-bit latched multiplexer/demultiplexer NuBus transceiver, non-inverting		three-state	(68)	SN74BCT2424 (https://archive.org/details/bitsavers_tidataBookProducts_10042209/page/n39)
74x2425	1	Macintosh Coprocessor Platform NuBus address/data registered transceiver		three-state	(100)	SN74BCT2425 (https://archive.org/details/bitsavers_tidataBookProducts_10042209/page/n49)
74x2440	1	NuBus interface controller			(68)	SN74ACT2440 (https://archive.org/details/bitsavers_tidataBookProducts_10042209/page/n61)
74x2441	1	NuBus interface controller			(100)	SN74ACT2441 (https://archive.org/details/bitsavers_tidataBookProducts_10042209/page/n93)

74x2442	1	NuBus block slave address generator		three-state	(20)	SN74ALS2442 (https://archive.org/details/bitsavers_tidataBookProducts_10042209/page/n145)
74x2509	1	9-output clock driver with PLL		three-state	(24)	HD74CDC2509 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-13/DSA-248016.pdf)
74x2510	1	10-output clock driver with PLL		three-state	(24)	HD74CDC2510 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-13/DSA-248017.pdf)
74x2525	1	8-output clock driver			14	74AC2525 (https://archive.org/details/bitsavers_nationaldaFACTDatabook_39311242/page/n443)
74x2526	1	8-output clock driver with input multiplexer			16	74AC2526 (https://archive.org/details/bitsavers_nationaldaFACTDatabook_39311242/page/n443)
74x2533	1	8-bit bus interface latch, inverting		three-state, 25 Ω series resistor	20	QS74FCT2533T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n369)
74x2534	1	8-bit bus interface register, inverting		three-state, 25 Ω series resistor	20	QS74FCT2534T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n375)
74x2540	1	8-bit buffer / line driver, inverting		three-state, 25 Ω series resistor	20	SN74ALS2540 (https://archive.org/details/bitsavers_tidataBooktaBook_60160366/page/n955)
74x2541	1	8-bit buffer / line driver, non-inverting		three-state, 25 Ω series resistor	20	SN74ALS2541 (https://archive.org/details/bitsavers_tidataBooktaBook_60160366/page/n955)
74x2543	1	8-bit latched transceiver, non-inverting		three-state, 25 Ω series resistor	24	QS74FCT2543T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n399)
74x2544	1	8-bit latched transceiver, inverting		three-state, 25 Ω series resistor	24	QS74FCT2544T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n399)
74x2573	1	8-bit transparent latch		three-state, 25 Ω series resistor	20	QS74FCT2573T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n407)

74x2574	8	octal D-type flip-flop with common clock		three-state, 25 Ω series resistor	20	QS74FCT2574T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n413)
74x2620	1	octal bus transceiver / MOS driver, inverting		three-state, 25 Ω series resistor	20	SN74AS2620 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n763)
74x2623	1	octal bus transceiver / MOS driver, non-inverting		three-state, 25 Ω series resistor	20	SN74AS2623 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n763)
74x2640	1	octal bus transceiver / MOS driver, inverting		three-state, 25 Ω series resistor	20	SN74AS2640 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n767)
74x2643	1	octal bus transceiver, mix of inverting and non-inverting outputs		three-state, 25 Ω series resistor	20	74F2643 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-22/DSA-425742.pdf)
74x2645	1	octal bus transceiver / MOS driver, non-inverting		three-state, 25 Ω series resistor	20	SN74AS2645 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n767)
74x2646	1	octal registered transceiver, non-inverting		three-state, 25 Ω series resistor	24	QS74FCT2646T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n419)
74x2648	1	octal registered transceiver, inverting		three-state, 25 Ω series resistor	24	QS74FCT2648T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n419)
74x2651	1	octal registered transceiver, inverting		three-state, 25 Ω series resistor	24	QS74FCT2651T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n427)
74x2652	1	octal registered transceiver, non-inverting		three-state, 25 Ω series resistor	24	QS74FCT2652T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n427)
74S2708	1	8192-bit PROM (1024x8)		three-state	24	SN74S2708 (https://archive.org/details/bitsavers_tidataBookcomputerComponentsDataBook_16851665/page/n177)
74AC2708	1	576-bit FIFO memory (64x9)		three-state	28	74AC2708 (https://archive.org/details/bitsavers_n

					ationaldaFACTDatabook_39311242/page/n445)
74x2725	1	4608-bit FIFO memory (512x9)			28	74ACT2725 (https://archive.org/details/bitsavers_nationaldaFACTDatabook_39311242/page/n461)
74x2726	1	4608-bit bidirectional FIFO memory (512x9)			28	74ACT2726 (https://archive.org/details/bitsavers_nationaldaFACTDatabook_39311242/page/n461)
74x2821	1	10-bit D-type flip-flop		three-state, 25 Ω series resistor	24	QS74FCT2821T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n435)
74x2823	1	9-bit D-type flip-flop with clear		three-state, 25 Ω series resistor	24	QS74FCT2823T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n435)
74x2825	1	8-bit D-type flip-flop with clear and clock enable		three-state, 25 Ω series resistor	24	QS74FCT2825T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n435)
74x2827	1	10-bit buffer, non-inverting		three-state, 25 Ω series resistor	24	SN74BCT2827A (https://archive.org/details/bitsavers_tidataBookerfaceLogicDataBook_4501982/page/n93)
74x2828	1	10-bit buffer, inverting		three-state, 25 Ω series resistor	24	SN74BCT2828A (https://archive.org/details/bitsavers_tidataBookerfaceLogicDataBook_4501982/page/n93)
74x2833	1	8-bit bus transceiver with parity error flip-flop		three-state, 25 Ω series resistor	24	QS74FCT2833T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n451)
74x2841	1	10-bit transparent latch		three-state, 25 Ω series resistor	24	QS74FCT2841T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n453)
74x2843	1	9-bit transparent latch with asynchronous reset		three-state, 25 Ω series resistor	24	QS74FCT2843T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n453)
74x2845	1	8-bit transparent latch with asynchronous reset and multiple output enable		three-state, 25 Ω series resistor	24	QS74FCT2845T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n453)

74x2853	1	8-bit bus transceiver with parity error latch		three-state, 25 Ω series resistor	24	QS74FCT2853T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n451)
74x2861	1	10-bit non-inverting bus transceiver		three-state, 25 Ω series resistor	24	QS74FCT2861T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n463)
74x2862	1	10-bit inverting bus transceiver		three-state, 25 Ω series resistor	24	QS74FCT2862T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n463)
74x2863	1	9-bit non-inverting bus transceiver with dual output enable		three-state, 25 Ω series resistor	24	QS74FCT2863T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n463)
74x2864	1	9-bit inverting bus transceiver with dual output enable		three-state, 25 Ω series resistor	24	QS74FCT2864T (https://archive.org/details/QualitySemiconductor-1991DatabookOCR/page/n463)
74x2952	1	octal bus transceiver and register, non-inverting		three-state	24	SN74LVC2952A (https://archive.org/stream/TexasInstrumentsLVCAndLVDataBook1998/Texas_Instruments_LVC_and_LV_Data_Book_1998#page/n391)
74x2953	1	octal bus transceiver and register, inverting		three-state	24	74F2953 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n945)
74x2960	1	error detection and correction (EDAC), equivalent to Am2960		three-state	48	MC74F2960 (https://archive.org/details/bitsavers_motoroladaSchottkyTTLData_33878952/page/n629)
74x2961	1	4-bit EDAC bus buffer, inverting, equivalent to Am2961		three-state	24	MC74F2961A (https://datasheetspdf.com/pdf-file/501240/Motorola/MC74F2961A/1)
74x2962	1	4-bit EDAC bus buffer, non-inverting, equivalent to Am2962		three-state	24	MC74F2962A (https://datasheetspdf.com/pdf-file/501240/Motorola/MC74F2961A/1)
74x2967	1	controller/driver for 16k/64k/256k dRAM			48	SN74ALS2967 (https://archive.org/details/bitsavers_tidataBook_28346484/page/n515)
74x2968	1	controller/driver for 16k/64k/256k dRAM			48	SN74ALS2968 (https://archive.org/details/bitsavers_tidataBook_28346484/page/n515)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x2969	1	memory timing controller for use with EDAC			48	MC74F2969 (https://archive.org/details/bitsavers_motoroladaSchottkyTTLData_33878952/page/n635)
74x2970	1	memory timing controller for use without EDAC			24	MC74F2970 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0043139.pdf)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x3004	1	selectable GTL voltage reference		analog	(6)	SN74GTL3004 (http://www.ti.com/lit/gpn/sn74gtl3004)
74x3037	4	quad 2-input NAND gate		driver 30 Ω	16	74F3037 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n951)
74x3038	4	quad 2-input NAND gate		open-collector driver 30 Ω	16	74F3038 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n955)
74x3040	2	dual 4-input NAND gate		driver 30 Ω	16	74F3040 (https://archive.org/details/bitsavers_signeticsdaManual_57966640/page/n959)
74x3125	4	quad FET bus switch, output enable active low			(14)	SN74CBT3125 (https://archive.org/details/TexasInstruments-TI-Data-CBT5-VandCBTLV3.3-VBusSwitches1998OCR/page/n45)
74x3126	4	quad FET bus switch, output enable active high			(14)	SN74CBT3126 (https://archive.org/details/TexasInstruments-TI-Data-CBT5-VandCBTLV3.3-VBusSwitches1998OCR/page/n49)
74FCT3244	2	dual 4-bit buffer / line driver		three-state	20	IDT74FCT3244 (https://archive.org/details/bitsavers_idtdataBoomanceLogicDataBook_51362967/page/n509)
74CBT3244, 74FST3244	2	dual 4-bit FET bus switch			20	SN74CBT3244 (https://archive.org/details/TexasInstruments-TI-Data-CBT5-VandCBTLV3.3-VBusSwitches1998OCR/page/n53) IDT74FST3244 (https://archive.org/details/bitsavers_idtdataBoomanceLogicDataBook_51362967/page/n641)
74FCT3245	1	octal bidirectional transceiver		three-state	20	IDT74FCT3245 (https://archive.org/details/bitsavers_idtdataBoomanceLo

					gicDataBook_51362967/page/n515)
74CBT3245, 74FST3245	1	octal FET bus switch		20	SN74CBT3245A (https://archive.org/details/TexasInstruments-TI-Data-CBT5-VandCBTLV3.3-VBusSwitches1998OCR/page/n61) IDT74FST3245 (https://archive.org/details/bitsavers_idtdataBoomanceLogicDataBook_51362967/page/n645)
74LVX3245	1	octal bidirectional voltage-translating transceiver	three-state	(24)	74LVX3245 (https://archive.org/details/bitsavers_nationaldaCROSSVOLTLowVoltageLogicSeriesDatabook_18426235/page/n129)
74GTLPH3245	1	32-bit LV-TTL-to-GTLP adjustable-edge-rate bus transceiver	three-state and open-collector	(114)	SN74GTLPH3245 (https://www.mouser.com/datasheet/2/405/sn74gtlph3245-447892.pdf)
74x3251	1	8-line to 1-line FET multiplexer / demultiplexer		(16)	SN74CBT3251 (https://archive.org/details/TexasInstruments-TI-Data-CBT5-VandCBTLV3.3-VBusSwitches1998OCR/page/n69)
74x3253	2	dual 4-line to 1-line FET multiplexer / demultiplexer		(16)	SN74CBT3253 (https://archive.org/details/TexasInstruments-TI-Data-CBT5-VandCBTLV3.3-VBusSwitches1998OCR/page/n73)
74x3257	4	quad 2-line to 1-line FET multiplexer / demultiplexer		(16)	IDT74FST3257 (https://archive.org/details/bitsavers_idtdataBoomanceLogicDataBook_51362967/page/n651)
74x3283	1	32-bit latchable transceiver with parity checker / generator	three-state	(120)	74ACTQ3283 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-22/DSA-420818.pdf)
74x3284	1	18-bit synchronous datapath multiplexer	three-state	(100)	74ABT3284 (https://datasheet.datasheetarchive.com/originals/library/Datasheet-019/DSA00332573.pdf)
74x3305	2	dual FET bus switch with extended voltage range		(8)	SN74CBT3305C (https://www.ti.com/lit/gpn/sn74cbt3305c)
74x3306	2	dual FET bus switch		(8)	SN74CBT3306 (https://archive.org/details/TexasInstruments-TI-Data-CBT5-VandCBTLV3.3-VBusS

					witches1998OCR/page/n 85)
74x3345	1	octal FET bus switch, dual output enable			(20) SN74CBT3345 (https://a rchive.org/details/TexasI nstruments-TI-Data-CBT 5-VandCBTLV3.3-VBusS witches1998OCR/page/n 89)
74x3374	1	8-bit metastable-resistant D-type flip-flop		three-state	20 SN74AS3374 (https://da tasheet.datasheetarchiv e.com/originals/scans/S cans-067/DSA2IH00215 569.pdf)
74x3383	1	5-bit 4-port FET bus exchange switch			24 IDT74FST3383 (https://a rchive.org/details/bitsav ers_idtdataBoomanceLo gicDataBook_51362967/ page/n655)
74x3384	2	dual 5-bit FET bus switch			24 IDT74FST3384 (https://a rchive.org/details/bitsav ers_idtdataBoomanceLo gicDataBook_51362967/ page/n509)
74x3386	1	5-bit 4-port FET bus exchange switch with extended voltage range			(24) SN74CBT3386 (https://a rchive.org/details/TexasI nstruments-TI-Data-CBT 5-VandCBTLV3.3-VBusS witches1998OCR/page/n 113)
74x3390	1	octal 2-line to 1-line FET multiplexer / bus switch			(28) IDT74FST3390 (https://a rchive.org/details/bitsav ers_idtdataBoomanceLo gicDataBook_51362967/ page/n665)
74x3573	1	octal transparent latch		three-state	20 IDT74FCT3573 (https://a rchive.org/details/bitsav ers_idtdataBoomanceLo gicDataBook_51362967/ page/n521)
74x3574	1	octal D-type flip flop		three-state	20 IDT74FCT3574 (https://a rchive.org/details/bitsav ers_idtdataBoomanceLo gicDataBook_51362967/ page/n527)
74x3584	2	dual 5-bit FET bus switch		25 Ω series resistor	24 QS74QST3584 (https://d atasheet.datasheetarchi ve.com/originals/distribu tors/Datasheets-111/DS AP0025436.pdf)
74x3611	1	2304-bit FIFO memory (64x36)		three-state	(120) SN74ABT3611 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n361)
74x3612	1	4608-bit bidirectional FIFO memory (2x64x36)		three-state	(120) SN74ABT3612 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe

						moriesDataBook_33517 703/page/n387)
74x3613	1	2304-bit FIFO memory (64x36)		three-state	(120)	SN74ABT3613 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n287)
74x3614	1	4608-bit bidirectional FIFO memory (2x64x36)		three-state	(120)	SN74ABT3614 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n319)
74x3622	1	18432-bit bidirectional FIFO memory (2x256x36)		three-state	(120)	SN74ACT3622 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n177)
74x3631	1	18432-bit FIFO memory (512x36)		three-state	(120)	SN74ACT3631 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n105)
74x3632	1	36864-bit bidirectional FIFO memory (2x512x36)		three-state	(120)	SN74ACT3632 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n233)
74x3638	1	32768-bit bidirectional FIFO memory (2x512x32)		three-state	(120)	SN74ACT3638 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n203)
74x3641	1	36864-bit FIFO memory (1024x36)		three-state	(120)	SN74ACT3641 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n129)
74x3642	1	73728-bit bidirectional FIFO memory (2x1024x36)		three-state	(120)	SN74ACT3642 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n259)
74x3651	1	73728-bit FIFO memory (2048x36)		three-state	(120)	SN74ACT3651 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook_33517 703/page/n153)
74x3708	1	8192-bit PROM (1024x8)		open-collector	24	SN74S3708 (https://arch ive.org/details/bitsavers _tidataBookcomputerCo mponentsDataBook_168 51665/page/n177)
74x3807	1	1-to-10 clock driver		driver	20	IDT74FCT3807 (https://a rchive.org/details/bitsav ers_idtdataBoomanceLo gicDataBook_51362967/ page/n589)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x3827	1	10-bit buffer		three-state	24	IDT74FCT3827 (https://archive.org/details/bitsavers_idtdataBoomanceLogicDataBook_51362967/page/n535)
74x3861	1	10-bit FET bus switch			(24)	SN74CBT3861 (https://archive.org/details/TexasInstruments-TI-Data-CBT5-VandCBTLV3.3-VBusSwitches1998OCR/page/n121)
74x3862	1	10-bit FET bus switch with dual output enable			(24)	IDT74CBTLV3862 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-14/DSA-272858.pdf)
74x3893	1	quad Futurebus backplane transceiver		three-state and open-collector	(20)	MC74F3893A (https://archive.org/details/bitsavers_motoroladaFASTandLSTTLData_35934218/page/n313)
74x3907	1	Pentium clock synthesizer		three-state	(28)	IDT74FCT3907 (https://archive.org/details/bitsavers_idtdataBoomanceLogicDataBook_51362967/page/n629)
74x3932	1	PLL-based clock driver		three-state	(48)	IDT74FCT3932 (https://archive.org/details/bitsavers_idtdataBoomanceLogicDataBook_51362967/page/n619)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x4002	2	dual 4-input NOR gate			14	CD74HC4002 (https://web.archive.org/web/20170221111335/http://www.ti.com/lit/ds/symlink/cd74hc4002.pdf)
74x4015	2	dual 4-bit shift registers			16	CD74HC4015 (https://web.archive.org/web/20170805221247/http://www.ti.com/lit/ds/symlink/cd74hc4015.pdf)
74x4016	4	quad bilateral switch		analog	14	CD74HC4016 (https://web.archive.org/web/20170305192102/http://www.ti.com/lit/ds/symlink/cd74hc4016.pdf)
74x4017	1	5-stage ÷10 Johnson counter			16	CD74HC4017 (https://web.archive.org/web/20131111151724/http://www.ti.com/lit/ds/symlink/cd74hc4017.pdf)
74x4020	1	14-stage binary counter			16	SN74HC4020 (https://web.archive.org/web/20170305220915/http://www.ti.com/lit/ds/symlink/sn74hc4020.pdf)

74x4022	1	4-stage ÷8 Johnson counter			14	SN74HC4022 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n611)
74x4024	1	7-stage ripple carry binary counter			14	CD74HC4024 (https://web.archive.org/web/20170305193812/http://www.ti.com/lit/ds/symlink/cd74hc4024.pdf)
74x4028	1	BCD to decimal decoder			16	TC74HC4028P (https://datasheet.datasheetarchive.com/originals/scans/Scans-067/DSA2IH00204191.pdf)
74x4040	1	12-stage binary ripple counter			16	SN74HC4040 (https://web.archive.org/web/20161104125848/http://www.ti.com/lit/ds/symlink/sn74hc4040.pdf)
74x4046	1	phase-locked loop and voltage-controlled oscillator			16	CD74HC4046A (https://web.archive.org/web/20161130143815/http://www.ti.com/lit/ds/symlink/cd74hc4046a.pdf)
74x4049	6	hex inverting buffer			16	CD74HC4049 (https://web.archive.org/web/20170517050814/http://www.ti.com/lit/ds/symlink/cd74hc4050.pdf)
74x4050	6	hex buffer/converter (non-inverting)			16	CD74HC4050 (https://web.archive.org/web/20170517050814/http://www.ti.com/lit/ds/symlink/cd74hc4050.pdf)
74x4051	1	high-speed 8-channel analog multiplexer/demultiplexer		analog	16	CD74HC4051 (https://web.archive.org/web/20161213211740/http://www.ti.com/lit/ds/symlink/cd74hc4051.pdf)
74x4052	2	dual 4-channel analog multiplexer/demultiplexers		analog	16	CD74HC4052 (https://web.archive.org/web/20161213211740/http://www.ti.com/lit/ds/symlink/cd74hc4051.pdf)
74x4053	3	triple 2-channel analog multiplexer/demultiplexers		analog	16	CD74HC4053 (https://web.archive.org/web/20161213211740/http://www.ti.com/lit/ds/symlink/cd74hc4051.pdf)
74x4059	1	programmable divide-by-N counter			24	CD74HC4059 (https://web.archive.org/web/20161104185610/http://www.ti.com/lit/ds/symlink/cd74hc4059.pdf)
74x4060	1	14-stage binary ripple counter with oscillator			16	SN74HC4060 (https://web.archive.org/web/20170

					306011107/http://www.ti.com/lit/ds/symlink/sn74hc4060.pdf)
74x4061	1	14-stage asynchronous binary counter with oscillator		16	SN74HC4061 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n449)
74x4066	4	quad single-pole single-throw analog switch		14	SN74HC4066 (https://web.archive.org/web/20170305221555/http://www.ti.com/lit/ds/symlink/sn74hc4066.pdf)
74x4067	1	16-channel analog multiplexer/demultiplexer	analog	24	CD74HC4067 (https://web.archive.org/web/20170804052235/http://www.ti.com/lit/ds/symlink/cd74hc4067.pdf)
74x4072	2	dual 4-input OR gate		14	TC74HC4072 (http://www.htmldatasheet.com/pdf/toshiba/tc74hc4072.pdf)
74x4075	3	triple 3-input OR gate		14	CD74HC4075 (http://www.ti.com/lit/gpn/CD74HCT4075)
74x4078	1	single 8-input OR/NOR gate		14	MM74HC4078 (https://archive.org/details/bitsavers_nationaldaLogicDatabookVolume1_95500749/page/n701)
74x4094	1	8-bit three-state shift register/latch	three-state	16	CD74HC4094 (https://web.archive.org/web/20170706105747/http://www.ti.com/lit/ds/symlink/cd74hc4094.pdf)
74x4102	1	2-digit BCD presettable synchronous down counter		16	74HC4102 (https://datasheet.datasheetarchive.com/originals/scans/Scans-055/DSAIH000112054.pdf)
74x4103	1	8-bit binary presettable synchronous down counter		16	74HC4103 (https://datasheet.datasheetarchive.com/originals/scans/Scans-055/DSAIH000112054.pdf)
74x4245	1	8-bit 3V/5V translating transceiver	three-state	(24)	74LVX4245 (https://archive.org/details/bitsavers_nationaldaCROSSVOLTLowVoltageLogicSeriesDatabook_18426235/page/n135)
74x4301	1	8-bit latch, inverting	three-state	20	MN74HC4301 (https://archive.org/details/bitsavers_panasonicdicHighSpeedCMOS_23161100/page/n413)

74x4302	1	8-bit latch, non-inverting		three-state	20	MN74HC4302 (https://archive.org/details/bitsavers_panasonicdicHighSpeedCMOS_23161100/page/n417)
74x4303	1	8-bit D-type flip-flop, inverting outputs		three-state	20	MN74HC4303 (https://archive.org/details/bitsavers_panasonicdicHighSpeedCMOS_23161100/page/n421)
74x4304	1	8-bit D-type flip-flop, non-inverting outputs		three-state	20	MN74HC4304 (https://archive.org/details/bitsavers_panasonicdicHighSpeedCMOS_23161100/page/n425)
74x4305	2	dual 4-bit buffer, inverting		three-state	20	MN74HC4305 (https://archive.org/details/bitsavers_panasonicdicHighSpeedCMOS_23161100/page/n429)
74x4306	2	dual 4-bit buffer, non-inverting		three-state	20	MN74HC4306 (https://archive.org/details/bitsavers_panasonicdicHighSpeedCMOS_23161100/page/n433)
74x4316	4	quad analog switch		analog	14	MM74HC4316 (https://archive.org/details/bitsavers_nationaldaLogicDatabookVolume1_95500749/page/n703)
74x4351	1	8-channel analog multiplexer/demultiplexer with latch		analog	20	CD74HC4351 (http://www.ti.com/lit/gpn/cd74hc4352)
74x4352	2	dual 4-channel analog multiplexer/demultiplexer with latch		analog	20	CD74HC4352 (http://www.ti.com/lit/gpn/cd74hc4352)
74x4353	3	triple 2-channel analog multiplexer/demultiplexer with latch		analog	20	MC74HC4353 (https://archive.org/details/bitsavers_motoroladaHighSpeedCMOSData_40597139/page/n741)
74x4374	1	8-bit dual-rank synchronizer		three-state	20	SN74AS4374 (https://datasheet.datasheetarchive.com/originals/scans/Scans-056/DSAIH000137795.pdf)
74x4503	1	controller for 64k/256k/1M dynamic RAM		three-state	52	SN74ACT4503 (https://usermanual.wiki/Document/1990TICacheMemoryManagementDataBook.1210032352.pdf)
74x4510	1	BCD decade up/down counter			16	CD74HC4510 (https://archive.org/details/bitsavers_rcadataBooMOS_35821859/page/n559)
74x4511	1	BCD to 7-segment decoder			16	CD74HC4511 (http://www.ti.com/lit/gpn/cd54hc4

					511)
74x4514	1	4-to-16 line decoder/demultiplexer, input latches			24	CD74HC4514 (http://www.ti.com/lit/gpn/cd54hc4514)
74x4515	1	4-to-16 line decoder/demultiplexer with input latches; inverting			24	CD74HC4515 (http://www.ti.com/lit/gpn/cd54hc4514)
74x4516	1	4-bit binary up/down counter			16	CD74HC4516 (https://archive.org/details/bitsavers_rcadataBooMOS_35821859/page/n559)
74x4518	2	dual 4-bit synchronous decade counter			16	CD74HC4518 (http://www.ti.com/lit/gpn/cd74hc4520)
74x4520	2	dual 4-bit synchronous binary counter			16	CD74HC4520 (http://www.ti.com/lit/gpn/cd74hc4520)
74x4538	2	dual retriggerable precision monostable multivibrator			16	CD74HC4538 (http://www.ti.com/lit/gpn/cd54hc4538)
74x4543	1	BCD to 7-segment latch/decoder/driver for LCDs			16	CD74HC4543 (http://www.ti.com/lit/gpn/cd74hc4543)
74x4560	1	4-bit BCD adder			16	MM74HC4560 (https://archive.org/details/bitsavers_nationalda74HCDatabook_36362852/page/n531)
74x4724	1	8-bit addressable latch			16	SN74HC4724 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n457)
74x4764	1	programmable dRAM controller			(100)	74ABT4764 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-110/DSAP0018785.pdf)
74x4799	1	Timer for NiCd and NiMH chargers	Schmitt trigger	open-collector and three-state	16	74LV4799 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-25/DSA-494778.pdf)
74x4851	1	8-channel analog multiplexer/demultiplexer		analog	16	SN74HC4851 (https://web.archive.org/web/20160508140402/http://www.ti.com/lit/ds/symlink/sn74hc4851.pdf)
74x4852	2	dual 4-channel analog multiplexer/demultiplexer		analog	16	SN74HC4852 (http://www.ti.com/lit/gpn/sn74hc4852)
74x5074	2	dual positive edge-triggered D-type flip-flop (metastable immune)			14	74ABT5074 (https://datasheet.datasheetarchive.com/originals/distributor

Part number	Units	Description	Input	Output	Pins	Datasheet
						s/Datasheets-25/DSA-496118.pdf)
74x5245	1	octal bidirectional transceiver	Schmitt trigger	three-state	20	DM74ALS5245 (https://archive.org/details/bitsavers_nationaldaicDatabook_22808448/page/n417)
74x5300	1	fiber optic LED driver		driver 120 mA	8	74F5300 (http://pdf.datasheetcatalog.com/datasheet/philips/N74F5300D.pdf)
74x5302	2	dual fiber optic LED / clock driver		driver 160 mA	14	74F5302 (http://www.datasheetbank.com/datasheet-download/530792/1/Philips/74F5302)
74x5400	1	11-bit line/memory driver, non-inverting		three-state, 25 Ω series resistor	28	SN74ABT5400 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n605)
74x5401	1	11-bit line/memory driver, inverting		three-state, 25 Ω series resistor	28	SN74ABT5401 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n609)
74x5402	1	12-bit line/memory driver, non-inverting		three-state, 25 Ω series resistor	28	SN74ABT5402 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n613)
74x5403	1	12-bit line/memory driver, inverting		three-state, 25 Ω series resistor	28	SN74ABT5403 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n617)
74x5555	1	programmable delay timer with oscillator			16	74HC5555 (https://assets.nexperia.com/documents/data-sheet/74HC5555.pdf)
74x5620	1	octal bidirectional transceiver	Schmitt trigger	three-state	20	DM74ALS5620 (https://archive.org/details/bitsavers_nationaldaicDatabook_22808448/page/n417)
Part number	**Units**	**Description**	**Input**	**Output**	**Pins**	**Datasheet**
74x6000	1	logic-to-logic optocoupler, non-inverting			6	74OL6000 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-12/DSA-229129.pdf)
74x6001	1	logic-to-logic optocoupler, inverting			6	74OL6001 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-12/DSA-229129.pdf)
74x6010	1	logic-to-logic optocoupler, non-inverting		open-collector 15 V	6	74OL6010 (https://datasheet.datasheetarchive.com/originals/distributors/

					Datasheets-12/DSA-229 129.pdf)
74x6011	1	logic-to-logic optocoupler, inverting		open-collector 15 V	6	74OL6011 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-12/DSA-229 129.pdf)
74x6300	1	programmable dynamic memory refresh timer			16	SN74ALS6300 (https://usermanual.wiki/Document/1990TICacheMemory ManagementDataBook.1 210032352.pdf)
74x6301	1	dynamic memory refresh controller, transparent and burst modes, for 16K, 64K, 256K, and 1M dRAM			52	SN74ALS6301 (https://archive.org/details/bitsav ers_tidataBook_2834648 4/page/n535)
74x6302	1	dynamic memory refresh controller, transparent and burst modes, for 16K, 64K, 256K, and 1M dRAM			52	SN74ALS6302 (https://archive.org/details/bitsav ers_tidataBook_2834648 4/page/n535)
74x6310	1	static column and page mode access detector for dRAM			20	SN74ALS6310A (https://usermanual.wiki/Document/1990TICacheMemor yManagementDataBook.1210032352.pdf)
74x6311	1	static column and page mode access detector for dRAM			20	SN74ALS6311A (https://usermanual.wiki/Document/1990TICacheMemor yManagementDataBook.1210032352.pdf)
74x6323	1	programmable ripple counter with oscillator		three-state	(8)	74HC6323A (https://assets.nexperia.com/documents/data-sheet/74HC_HCT6323A.pdf)
74x6364	1	64-bit flow-through error detection and correction circuit		three-state	(207)	SN74AS6364 (https://usermanual.wiki/Document/1990TICacheMemoryManagementDataBook.1210032352.pdf)
74x6800	1	10-bit FET bus switch with precharge			24	IDT74FST6800 (https://archive.org/details/bitsav ers_idtdataBoomanceLo gicDataBook_51362967/page/n671)
74x6845	1	8-bit FET bus switch with precharge and extended voltage range			(20)	SN74CBT6845C (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-36/DSA-711566.pdf)
74x7001	4	quad 2-input AND gate	Schmitt trigger		14	SN74HC7001 (http://www.ti.com/lit/gpn/sn74hc7 001)
74x7002	4	quad 2-input NOR gate	Schmitt trigger		14	SN74HC7002 (http://www.ti.com/lit/gpn/sn74hc7 002)

74x7003	4	quad 2-input NAND gate	Schmitt trigger	open-collector	14	SN74HC7003 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n707)
74x7006	6	two inverters, one 3-input NAND, one 4-input NAND, one 3-input NOR, one 4-input NOR			24	SN74HC7006 (https://archive.org/details/bitsavers_tidataBookSLogicDataBook_45157566/page/n773)
74x7007	6	hex buffer gate			14	TC74HCT7007AP (https://www.alldatasheet.com/datasheet-pdf/pdf/31796/TOSHIBA/TC74HCT7007AF.html)
74x7008	6	two inverters, three 2-input NAND, three 2-input NOR			24	SN74HC7008 (https://archive.org/details/bitsavers_tidataBookSLogicDataBook_45157566/page/n777)
74x7014	6	hex buffer gate	Schmitt trigger		14	74HC7014 (https://assets.nexperia.com/documents/data-sheet/74HC7014.pdf)
74x7022	1	4-stage ÷8 Johnson counter with power-up clear			14	SN74HC7022 (https://archive.org/details/bitsavers_tidataBookogicDataBook_23574286/page/n615)
74x7030	1	576-bit FIFO memory (64x9)		three-state	28	74HC7030 (https://archive.org/details/highspeedcmosda00sign/page/764)
74x7032	4	quad 2-input OR gates	Schmitt trigger		14	SN74HC7032 (https://archive.org/details/bitsavers_tidataBookSLogicDataBook_45157566/page/n787)
74x7038	1	9-bit bus transceiver with latch		three-state	24	CD74HC7038 (https://archive.org/details/bitsavers_rcadataBooMOS_35821859/page/n641)
74x7046	1	phase-locked loop with voltage-controlled oscillator and lock detector			16	CD74HC7046A (http://www.ti.com/lit/gpn/cd74hc7046a)
74x7060	1	14-stage binary counter with oscillator	Schmitt trigger		20	CD74AC7060 (https://archive.org/details/RCA-RCAAdvancedCMOSLogicICs1987OCR/page/n291)
74x7074	6	two inverters, one 2-input NAND, one 2-input NOR, two D-type flip-flops			24	SN74HC7074 (https://archive.org/details/bitsavers_tidataBookSLogicDataBook_45157566/page/n791)
74x7075	6	two inverters, two 2-input NAND, two D-type flip-flops			24	SN74HC7075 (https://archive.org/details/bitsavers_tidataBookSLogicDat

						aBook_45157566/page/n 797)
74x7076	6	two inverters, two 2-input NOR, two D-type flip-flops			24	SN74HC7076 (https://ar chive.org/details/bitsave rs_tidataBookSLogicDat aBook_45157566/page/n 803)
74x7080	1	16-bit parity generator / checker			20	74HCT7080 (https://data sheet.datasheetarchive. com/originals/distributor s/Datasheets-25/DSA-49 1964.pdf)
74x7132	4	quad adjustable comparator with output latches	Schmitt trigger	three-state	14	74HCT7132 (https://data sheet.datasheetarchive. com/originals/distributor s/Datasheets-30/DSA-59 6949.pdf)
74x7200	1	2304-bit FIFO memory (256x9)			28	SN74ACT7200L (https:// archive.org/details/bitsa vers_tidataBookeFIFOM emoriesDataBook_3351 7703/page/n695)
74x7201	1	4608-bit FIFO memory (512x9)			28	SN74ACT7201LA (http s://archive.org/details/bit savers_tidataBookeFIF OMemoriesDataBook_3 3517703/page/n695)
74x7202	1	9216-bit FIFO memory (1024x9)			28	SN74ACT7202LA (http s://archive.org/details/bit savers_tidataBookeFIF OMemoriesDataBook_3 3517703/page/n695)
74x7203	1	18432-bit FIFO memory (2048x9)			28	SN74ACT7203L (https:// archive.org/details/bitsa vers_tidataBookeFIFOM emoriesDataBook_3351 7703/page/n715)
74ACT7204	1	36864-bit FIFO memory (4096x9)			28	SN74ACT7204L (https:// archive.org/details/bitsa vers_tidataBookeFIFOM emoriesDataBook_3351 7703/page/n715)
74HCU7204	2	dual unbuffered inverters			(8)	SN74HCU7204 (http://w ww.ti.com/lit/gpn/sn74hc u7204)
74x7205	1	73728-bit FIFO memory (8192x9)			28	SN74ACT7205L (https:// datasheet.datasheetarch ive.com/originals/distribu tors/Datasheets-36/DSA -705735.pdf)
74x7206	1	147456-bit FIFO memory (16384x9)			28	SN74ACT7206L (https:// datasheet.datasheetarch ive.com/originals/distribu tors/Datasheets-36/DSA -705735.pdf)
74x7240	1	octal bus buffer, inverting	Schmitt trigger	three-state	20	TC74HC7240AP (http://p df.datasheet.live/datash

						eets-1/toshiba/TC74HC7 241AP.pdf)
74x7241	1	octal bus buffer, non-inverting	Schmitt trigger	three-state	20	TC74HC7241AP (http://p df.datasheet.live/datash eets-1/toshiba/TC74HC7 241AP.pdf)
74x7244	1	octal bus buffer, non-inverting	Schmitt trigger	three-state	20	TC74HC7244AP (http://p df.datasheet.live/datash eets-1/toshiba/TC74HC7 241AP.pdf)
74x7245	1	octal bus transceiver, non-inverting	Schmitt trigger	three-state	20	M74HC7245 (https://pdf 1.alldatasheet.com/data sheet-pdf/view/23130/ST MICROELECTRONICS/ M74HC7645.html)
74x7266	4	quad 2-input XNOR gate			14	SN74HC7266 (https://ar chive.org/details/bitsave rs_tidataBookogicDataB ook_23574286/page/n46 1)
74x7273	8	octal positive edge-triggered D-type flip-flop with reset		open-collector	20	74HCT7273 (https://data sheet.datasheetarchive. com/originals/distributor s/Datasheets-25/DSA-49 6043.pdf)
74x7292	1	programmable divider/timer			16	TC74HC7292AP (https:// pdf1.alldatasheet.com/d atasheet-pdf/view/3177 1/TOSHIBA/TC74HC729 2AP.html)
74x7294	1	programmable divider/timer			16	M74HC7294 (https://pdf 1.alldatasheet.com/data sheet-pdf/view/23075/ST MICROELECTRONICS/ M74HC7294.html)
74x7340	1	8-bit bus driver with bidirectional registers		three-state	24	SN74HC7340 (https://ar chive.org/details/bitsave rs_tidataBookogicDataB ook_23574286/page/n62 5)
74x7403	1	256-bit FIFO memory (64x4)		three-state	16	74HC7403 (http://pdf.dat asheetcatalog.com/data sheet/philips/74HC7403. pdf)
74x7404	1	320-bit FIFO memory (64x5)		three-state	18	74HC7404 (https://pdf1. alldatasheet.com/datash eet-pdf/view/15661/PHIL IPS/74HC7404.html)
74x7540	8	octal buffer/line driver, inverting	Schmitt trigger	three-state	20	74HC7540 (https://asset s.nexperia.com/docume nts/data-sheet/74HC_HC T7540.pdf)
74x7541	8	octal buffer/line driver, non-inverting	Schmitt trigger	three-state	20	74HC7541 (https://asset s.nexperia.com/docume nts/data-sheet/74HC_HC T7541.pdf)

74x7597	1	8-bit shift register with input latches			16	74HC7597 (http://pdf.datasheetcatalog.com/datasheet/philips/74HC7597.pdf)
74x7623	1	octal bus transceiver, non-inverting		three-state and open-drain	20	CD74AC7623 (https://archive.org/details/RCA-RCAAdvancedCMOSLogicICs1987OCR/page/n293)
74x7640	1	octal bus transceiver, inverting	Schmitt trigger	three-state	20	M74HC7640 (https://pdf1.alldatasheet.com/datasheet-pdf/view/23130/STMICROELECTRONICS/M74HC7645.html)
74x7643	1	octal bus transceiver, non-inverting/inverting	Schmitt trigger	three-state	20	M74HC7643 (https://pdf1.alldatasheet.com/datasheet-pdf/view/23130/STMICROELECTRONICS/M74HC7645.html)
74x7645	1	octal bus transceiver, non-inverting	Schmitt trigger	three-state	20	M74HC7645 (https://pdf1.alldatasheet.com/datasheet-pdf/view/23130/STMICROELECTRONICS/M74HC7645.html)
74x7731	4	quad 64-bit static shift register			16	74HC7731 (http://pdf.datasheetcatalog.com/datasheet/philips/74HCT7731.pdf)
74x7793	1	8-bit noninverting transparent latch with readback		three-state	20	MC74HC7793 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0048904.pdf)
74x7801	1	18432-bit FIFO memory (1024x18), clocked		three-state	(68)	SN74ACT7801 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook400_13134187/page/n21)
74x7802	1	18432-bit FIFO memory (1024x18)		three-state	(68)	SN74ACT7802 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook400_13134187/page/n115)
74x7803	1	9216-bit FIFO memory (512x18), clocked		three-state	(56)	SN74ACT7803 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook400_13134187/page/n37)
74x7804	1	9216-bit FIFO memory (512x18)		three-state	(56)	SN74ACT7804 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook400_13134187/page/n127)
74x7805	1	4608-bit FIFO memory (256x18), clocked		three-state	(56)	SN74ACT7805 (https://archive.org/details/bitsavers_tidataBookeFIFOMe

					moriesDataBook400_13 134187/page/n51)
74x7806	1	4608-bit FIFO memory (256x18)		three-state	(56)	SN74ACT7806 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n139)
74x7807	1	18432-bit FIFO memory (2048x9), clocked		three-state	(44)	SN74ACT7807 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n65)
74x7808	1	18432-bit FIFO memory (2048x9)		three-state	(44)	SN74ACT7808 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n151)
74x7811	1	18432-bit FIFO memory (1024x18), clocked		three-state	(68)	SN74ACT7811 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n81)
74x7813	1	1152-bit FIFO memory (64x18), clocked		three-state	(56)	SN74ACT7813 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n99)
74x7814	1	1152-bit FIFO memory (64x18)		three-state	(56)	SN74ACT7814 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n165)
74x7815	1	4608-bit bidirectional FIFO memory(2x64x36)		three-state	(120)	SN74ABT7815 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n279)
74x7816	1	4608-bit bidirectional FIFO memory(2x64x36)		three-state	(120)	SN74ABT7816 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n291)
74x7817	1	2304-bit FIFO memory(64x36)		three-state	(120)	SN74ABT7817 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n293)
74x7818	1	2304-bit FIFO memory(64x36)		three-state	(120)	SN74ABT7818 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n295)
74x7819	1	18432-bit bidirectional FIFO memory (2x512x18), clocked		three-state	(80)	SN74ABT7819 (https://a rchive.org/details/bitsav ers_tidataBookeFIFOMe moriesDataBook400_13 134187/page/n207)

74x7820	1	18432-bit bidirectional FIFO memory (2x512x18)		three-state	(80)	SN74ABT7820 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook400_13134187/page/n229)
74x7821	1	32768-bit bidirectional FIFO memory (2x512x32)		three-state	(120)	SN74ACT7821 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook400_13134187/page/n317)
74x7822	1	32768-bit bidirectional FIFO memory (2x512x32), clocked		three-state	(120)	SN74ACT7822 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook400_13134187/page/n325)
74x7823	1	36864-bit FIFO memory (1024x36), clocked		three-state	(120)	SN74ACT7823 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook400_13134187/page/n333)
74x7881	1	18432-bit FIFO memory (1024x18), clocked		three-state	(68)	SN74ACT7881 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook_33517703/page/n479)
74x7882	1	36864-bit FIFO memory (2048x18), clocked		three-state	(68)	SN74ACT7882 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook_33517703/page/n495)
74x7884	1	73728-bit FIFO memory (4096x18), clocked		three-state	(68)	SN74ACT7884 (https://archive.org/details/bitsavers_tidataBookeFIFOMemoriesDataBook_33517703/page/n511)
74x8003	2	dual 2-input NAND gate			8	SN74ALS8003 (https://archive.org/details/bitsavers_tidataBookVol3_25840031/page/n771)
74x8151	1	10-bit inverting/non-inverting buffer	Schmitt trigger	three-state	24	SN74LV8151 (http://www.ti.com/lit/gpn/sn74lv8151)
74x8153	1	8-bit serial-to-parallel interface		three-state or open-collector	20	SN74LV8153 (http://www.ti.com/lit/gpn/sn74lv8153)
74x8154	2	dual 16-bit counters with output registers		three-state	20	SN74LV8154 (http://www.ti.com/lit/gpn/sn74lv8154)
74x8161	1	8-bit synchronous binary counter			24	SN74ALS8161 (https://datasheet.datasheetarchive.com/originals/scans/Scans-067/DSA2IH00215541.pdf)
74x8240	1	octal inverting buffer with JTAG port		three-state	24	SN74BCT8240A (https://archive.org/details/bitsavers_tidataBookLogicDa

						taBook_44713328/page/n23)
74x8244	1	octal non-inverting buffer with JTAG port		three-state	24	SN74BCT8244A (https://archive.org/details/bitsavers_tidataBookLogicDataBook_44713328/page/n43)
74x8245	1	octal bus transceiver with JTAG port		three-state	24	SN74ABT8245 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n735)
74x8373	1	octal D-type latch with JTAG port		three-state	24	SN74BCT8373A (https://archive.org/details/bitsavers_tidataBookLogicDataBook_44713328/page/n85)
74x8374	1	octal D-type edge-triggered flip-flop with JTAG port		three-state	24	SN74BCT8374A (https://archive.org/details/bitsavers_tidataBookLogicDataBook_44713328/page/n105)
74x8400	1	expandable error checker / corrector		three-state	48	SN74ALS8400 (https://archive.org/details/bitsavers_tidataBook_28346484/page/n541)
74x8541	1	8-bit buffer, selectable inverting/non-inverting	Schmitt trigger	three-state	20	SN74AHC8541 (https://datasheet.datasheetarchive.com/originals/distributors/DKDS41/DSANUWW0029467.pdf)
74x8543	1	octal registered bus transceiver with JTAG port		three-state	28	SN74ABT8543 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n757)
74x8646	1	octal bus transceiver and register with JTAG port		three-state	28	SN74ABT8646 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n765)
74x8652	1	octal bus transceiver and register with JTAG port		three-state	28	SN74ABT8652 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n775)
74x8818	1	16-bit microprogram sequencer, cascadable		three-state	(84)	SN74ACT8818 (https://archive.org/details/bitsavers_tidataBookamily32BitCMOSProcessorBuildingBlocksDat_39357329/page/n19)
74x8832	1	32-bit registered ALU		three-state	(208)	SN74ACT8832 (https://archive.org/details/bitsavers_tidataBookamily32BitCMOSProcessorBuildin

						gBlocksDat_39357329/page/n79)
74x8834	1	40-bit register file		three-state	(156)	SN74AS8834 (https://archive.org/details/bitsavers_tidataBook_28346484/page/n545)
74x8835	1	16-bit microprogram sequencer, cascadable		three-state	(156)	SN74AS8835 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0053260.pdf)
74x8836	1	32x32-bit multiplier/accumulator		three-state	(156)	SN74ACT8836 (https://archive.org/details/bitsavers_tidataBookamily32BitCMOSProcessorBuildingBlocksDat_39357329/page/n273)
74x8837	1	64-bit floating point unit		three-state	(208)	SN74ACT8837 (https://archive.org/details/bitsavers_tidataBookamily32BitCMOSProcessorBuildingBlocksDat_39357329/page/n307)
74x8838	1	64-bit barrel shifter		three-state	(84)	SN74AS8838 (https://archive.org/details/bitsavers_tidataBook_28346484/page/n555)
74x8839	1	32-bit shuffle/exchange network		three-state	(85)	SN74AS8839 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0053259.pdf)
74x8840	1	digital crossbar switch		three-state	(156)	SN74AS8840 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-110/DSAP0010220.pdf)
74x8841	1	digital crossbar switch		three-state	(156)	SN74ACT8841 (https://archive.org/details/bitsavers_tidataBookamily32BitCMOSProcessorBuildingBlocksDat_39357329/page/n435)
74x8847	1	64-bit floating point and integer unit		three-state	(208)	SN74ACT8847 (https://archive.org/details/bitsavers_tidataBookamily32BitCMOSProcessorBuildingBlocksDat_39357329/page/n461)
74x8867	1	32-bit vector processor unit		three-state	(208)	SN74ACT8867 (https://archive.org/details/TexasInstruments-TI-Data-SN74ACT8800Family32-BitCMOSProcessorBuildingBlocks1990OCR/page/n495)

74x8952	1	octal registered bus transceiver with JTAG port		three-state	28	SN74ABT8952 (https://archive.org/details/bitsavers_tidataBookiCMOSTechnologyDataBook_40217042/page/n785)
74x8960	1	8-bit bidirectional latched FutureBus transceiver, inverting		three-state and open-collector	28	74F8960 (https://cdn.datasheetspdf.com/pdf-down/7/4/F/74F8960_PhilipsSemiconductors.pdf)
74x8961	1	8-bit bidirectional latched FutureBus transceiver, non-inverting		three-state and open-collector	28	74F8961 (https://cdn.datasheetspdf.com/pdf-down/7/4/F/74F8960_PhilipsSemiconductors.pdf)
74x8962	1	9-bit bidirectional latched FutureBus transceiver, inverting		three-state and open-collector	(44)	74F8962 (https://cdn.datasheetspdf.com/pdf-down/7/4/F/74F8962_PhilipsSemiconductors.pdf)
74x8963	1	9-bit bidirectional latched FutureBus transceiver, non-inverting		three-state and open-collector	(44)	74F8963 (https://cdn.datasheetspdf.com/pdf-down/7/4/F/74F8962_PhilipsSemiconductors.pdf)
74x8965	1	9-bit bidirectional latched FutureBus transceiver, latch select		three-state and open-collector	(44)	74F8965 (https://cdn.datasheetspdf.com/pdf-down/7/4/F/74F8965_PhilipsSemiconductors.pdf)
74x8966	1	9-bit bidirectional latched FutureBus transceiver, idle arbitration request / output		three-state and open-collector	(44)	74F8966 (https://cdn.datasheetspdf.com/pdf-down/7/4/F/74F8965_PhilipsSemiconductors.pdf)
74x8980	1	JTAG test access port master with 8-bit host interface		three-state	24	SN74LVT8980 (https://archive.org/details/bitsavers_tidataBookLogicDataBook_44713328/page/n795)
74x8986	1	linkable, multidrop-addressable JTAG transceiver		three-state	(64)	SN74LVT8986 (http://www.ti.com/lit/gpn/sn74lvt8986)
74x8990	1	JTAG test access port master with 16-bit host interface		three-state	(44)	SN74ACT8990 (https://archive.org/details/bitsavers_tidataBookLogicDataBook_44713328/page/n825)
74x8994	1	JTAG scan-controlled logic/signature analyzer			(28)	SN74ACT8994 (https://archive.org/details/bitsavers_tidataBookLogicDataBook_44713328/page/n837)
74x8996	1	multidrop-addressable JTAG transceiver			24	SN74ABT8996 (https://archive.org/details/bitsavers_tidataBookLogicDat

					aBook_44713328/page/n847)
74x8997	1	scan-controlled JTAG concatenator		three-state	28	SN74ACT8997 (https://archive.org/details/bitsavers_tidataBookLogicDataBook_44713328/page/n887)
74x8999	1	scan-controlled JTAG multiplexer		three-state	28	SN74ACT8999 (https://archive.org/details/bitsavers_tidataBookLogicDataBook_44713328/page/n911)
74x9000	1	programmable timer with oscillator			20	MC74HC9000 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0048905.pdf)
74x9014	9	nine-wide buffer/line driver, inverting	Schmitt trigger		20	74HC9014 (http://pdf.datasheetcatalog.com/datasheet/philips/74HCT9014.pdf)
74x9015	9	nine-wide buffer/line driver, non-inverting	Schmitt trigger		20	74HC9015 (http://pdf.datasheetcatalog.com/datasheet/philips/74HC9015.pdf)
74x9034	9	nine-wide buffer, inverting			20	MC74HC9034 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0048907.pdf)
74x9035	9	nine-wide buffer, noninverting			20	MC74HC9035 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0048907.pdf)
74x9046	1	PLL with band gap controlled VCO			16	74HCT9046 (https://assets.nexperia.com/documents/data-sheet/74HCT9046A.pdf)
74x9114	9	nine-wide inverter	Schmitt trigger	open-collector	20	74HC9114 (https://assets.nexperia.com/documents/data-sheet/74HC_HCT9114.pdf)
74x9115	9	nine-wide buffer	Schmitt trigger	open-collector	20	74HC9115 (https://assets.nexperia.com/documents/data-sheet/74HC9115.pdf)
74x9134	9	nine-wide buffer, inverting		open-collector	20	MC74HC9134 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0048910.pdf)
74x9135	9	nine-wide buffer, noninverting		open-collector	20	MC74HC9135 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-112/DSAP0048910.pdf)

Part number	Units	Description	Input	Output	Pins	Datasheet
74x9164	1	8-bit shift register (serial in/out, parallel in/out)	Schmitt trigger	three-state	(16)	TC74VHC9164 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-SFU3/DSASFU100040800.pdf)
74x9240	1	9-bit buffer / line driver, inverting		three-state	24	74FR9240 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-11/DSA-211521.pdf)
74x9244	1	9-bit buffer / line driver, non-inverting		three-state	24	74FR9244 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-11/DSA-212907.pdf)
74x9245	1	9-bit bidirectional transceiver, non-inverting		three-state	24	74FR9245 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-11/DSA-203499.pdf)
74x9323	1	programmable ripple counter with oscillator		three-state	(8)	74HC9323A (http://pdf.datasheetcatalog.com/datasheet/philips/74HCT7731.pdf)
74x9510	1	16×16-bit multiplier/accumulator (compatible to Am29510 and TDC1010)		three-state	(68)	74HC9510[9]:534
74x9541	1	8-bit buffer / line driver, inverting / non-inverting	Schmitt trigger	three-state	(20)	74AHC9541A (https://assets.nexperia.com/documents/data-sheet/74AHC9541A.pdf)
74x9595	1	8-bit shift register with latch (serial in, parallel out)	Schmitt trigger		(16)	TC74VHC9595 (https://datasheet.datasheetarchive.com/originals/distributors/Datasheets-SFU3/DSASFU100040801.pdf)
74x40102	1	presettable synchronous 2-decade BCD down counter			16	CD74HC40102 (https://archive.org/details/bitsavers_rcadataBooMOS_35821859/page/n603)
74x40103	1	presettable 8-bit synchronous down counter			16	CD74HC40103 (https://web.archive.org/web/20161104125904/http://www.ti.com/lit/ds/symlink/cd74hc40103.pdf)
74x40104	4	4-bit bidirectional universal shift register		three-state	16	CD74HC40104 (https://archive.org/details/bitsavers_rcadataBooMOS_35821859/page/n613)
74x40105	1	64-bit FIFO memory (16x4)		three-state	16	CD74HC40105 (http://www.ti.com/lit/gpn/cd74hc40105)

Smaller footprints

As board designs have migrated away from large amounts of logic chips, so has the need for many of the same gate in one package. Since about 1996,[12] there has been an ongoing trend towards one / two / three logic gates per chip. Now logic can be placed where it is physically needed on a board, instead of running long signal traces to a full-size logic chip that has many of the same gate.[13]

All chips in the following sections are available 5- to 10-pin surface-mount packages. The right digits, after the 1G/2G/3G, typically has the same functional features as older legacy chips, except for the multifunctional chips and 4-digit chip numbers, which are unique to these newer families. The "x" in the part number is a place holder for the logic family name. For example, 74x1G14 in "LVC" logic family would be "74LVC1G14". The previously stated prefixes of "SN-" and "MC-" are used to denote manufacturers, Texas Instruments and ON Semiconductor respectively.[14][15][16]

Some of the manufacturers that make these smaller IC chips are: Diodes Incorporated, Nexperia (NXP Semiconductors), ON Semiconductor (Fairchild Semiconductor), Texas Instruments (National Semiconductor), Toshiba.

The logic families available in small footprints are: AHC, AHCT, AUC, AUP, AXP, HC, HCT, LVC, VHC, NC7S, NC7ST, NC7SU, NC7SV. The LVC family is very popular in small footprints because it supports the most common logic voltages of 1.8 V, 3.3 V, 5 V, its inputs are 5 V tolerant when the device is powered at a lower voltage, and an output drive of 24 mA. Gates that are commonly available across most small footprint families are 00, 02, 04, 08, 14, 32, 86, 125, 126.

One-gate chips

All chips in this section have one gate, noted by the "1G" in the part numbers.

Part number	Description	Input	Output	Pins	Datasheet
74x1G00	single 2-input NAND gate			5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G00.pdf)
74x1G02	single 2-input NOR gate			5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G02.pdf)
74x1G04	single inverter gate			5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G04.pdf)
74x1G06	single inverter gate		open-drain	5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G06.pdf)
74x1G07	single buffer gate		open-drain	5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G07.pdf)
74x1G08	single 2-input AND gate			5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G08.pdf)
74x1G09	single 2-input AND gate		open-drain	5	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP1G09.pdf)
74x1G10	single 3-input NAND gate			6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G10.pdf)
74x1G11	single 3-input AND gate			6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G11.pdf)
74x1G14	single inverter gate	schmitt trigger		5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G14.pdf)
74x1G17	single buffer gate	schmitt trigger		5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G17.pdf)
74x1G18	single 1-of-2 non-inverting demultiplexer, deselected output is 3-state		three-state	6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G18.pdf)
74x1G19	single 1-to-2 line decoder, active low outputs			6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G19.pdf)
74x1G27	single 3-input NOR gate			6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G27.pdf)
74x1G29	single 2-to-3 line decoder, active low outputs			8	LVC (http://www.ti.com/lit/gpn/sn74lvc1g29)
74x1G32	single 2-input OR gate			5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G32.pdf)
74x1G34	single buffer gate			5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G34.pdf)

74x1G38	single 2-input NAND gate		open-drain	5	LVC (https://assets.nexperia.com/documents/data-sheet/74AUP1G38.pdf)
74x1G57	single configurable 7-function gate	schmitt trigger		6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G57.pdf)
74x1G58	single configurable 7-function gate	schmitt trigger		6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G58.pdf)
74x1G66	single SPST analog switch	analog	analog	5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G66.pdf)
74x1G74	single D-type flip-flop, positive-edge trigger, Q & Q outputs, asynchronous preset and clear			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G74.pdf)
74x1G79	single D-type flip-flop, positive-edge trigger, Q output			5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G79.pdf)
74x1G80	single D-type flip-flop, positive-edge trigger, Q output			5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G80.pdf)
74x1G86	single 2-input XOR gate (a.k.a. 2-bit even-parity generator)			5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G86.pdf)
74x1G97	single configurable 7-function gate	schmitt trigger		6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G97.pdf)
74x1G98	single configurable 7-function gate	schmitt trigger		6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G98.pdf)
74x1G99	single configurable 15-function gate, active-low enable	schmitt trigger	three-state	8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G99.pdf)
74x1G123	single retriggerable monostable multivibrator, active-low clear			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G123.pdf)
74x1G125	single buffer gate, active-low enable		three-state	5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G125.pdf)
74x1G126	single buffer gate, active-high enable		three-state	5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G126.pdf)
74x1G132	single 2-input NAND gate	schmitt trigger		5	LVC (http://www.ti.com/lit/gpn/sn74lvc1g132)
74x1G139	single 2-to-4 line decoder, active low outputs			8	LVC (http://www.ti.com/lit/gpn/sn74lvc1g139)
74x1G157	single 2-input multiplexer	schmitt trigger		6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G157.pdf)
74x1G158	single 2-input multiplexer, inverted output	schmitt trigger		6	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP1G158.pdf)

74x1G175	single D-type flip-flop, positive-edge trigger, Q output, asynchronous clear			6	LVC (http://www.ti.com/lit/ds/symlink/sn74lvc1g175.pdf)
74x1G240	single inverter gate, active-low enable		three-state	5	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G240.pdf)
74x1G332	single 3-input OR gate			6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G332.pdf)
74x1G373	single D-type transparent latch, negative-edge latching, Q output, active-low enable		three-state	6	LVC (http://www.ti.com/lit/gpn/sn74lvc1g373)
74x1G374	single D-type flip-flop, positive-edge trigger, Q output, active-low enable		three-state	6	LVC (http://www.ti.com/lit/gpn/sn74lvc1g374)
74x1G386	single 3-input XOR Gate (a.k.a. 3-bit even-parity generator)			6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC1G386.pdf)
74x1G0832	single 3-input AND-OR combo gate (2-input AND into 2-input OR)	schmitt trigger		6	LVC (http://www.ti.com/lit/gpn/sn74lvc1g0832,)
74x1G3157	single SPDT analog switch	analog	analog	6	LVC (http://www.ti.com/lit/gpn/sn74lvc1g3157)
74x1G3208	single 3-input OR-AND combo gate (2-input OR into 2-input AND)	schmitt trigger		6	LVC (http://www.ti.com/lit/gpn/sn74lvc1g3208)

Two-gate chips

All chips in this section have two gates, noted by the "2G" in the part numbers.

Part number	Description	Input	Output	Pins	Datasheet
74x2G00	dual 2-input NAND gate			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G00.pdf)
74x2G02	dual 2-input NOR gate			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G02.pdf)
74x2G04	dual inverter gate			6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G04.pdf)
74x2G06	dual inverter gate		open-drain	6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G06.pdf)
74x2G07	dual buffer gate		open-drain	6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G07.pdf)
74x2G08	dual 2-input AND gate			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G08.pdf)
74x2G14	dual inverter gate	schmitt trigger		6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G14.pdf)
74x2G17	dual buffer gate	schmitt trigger		6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G17.pdf)
74x2G32	dual 2-input OR gate			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G32.pdf)
74x2G34	dual buffer gate			6	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G34.pdf)
74x2G38	dual 2-input NAND gate		open-drain	8	LVC (https://assets.nexperia.com/documents/data-sheet/74AUP2G38.pdf)
74x2G57	dual configurable 7-function gate	schmitt trigger		10	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP2G57.pdf)
74x2G58	dual configurable 7-function gate	schmitt trigger		10	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP2G58.pdf)
74x2G66	dual SPST analog switch	analog	analog	8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G66.pdf)
74x2G79	dual D-type flip-flop, positive-edge trigger, Q output			8	LVC (http://www.ti.com/lit/gpn/sn74lvc2g79)
74x2G80	dual D-type flip-flop, positive-edge trigger, $\overline{Q}$ output			8	LVC (http://www.ti.com/lit/gpn/sn74lvc2g80)
74x2G86	dual 2-input XOR gate (a.k.a. 2-bit even-parity			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G8

	generator)			6.pdf)
74x2G97	dual configurable 7-function gate	schmitt trigger		10	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP2G97.pdf)
74x2G98	dual configurable 7-function gate	schmitt trigger		10	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP2G98.pdf)
74x2G125	dual buffer, active-low enable		three-state	8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G125.pdf)
74x2G126	dual buffer, active-high enable		three-state	8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G126.pdf)
74x2G132	dual 2-input NAND gate	schmitt trigger		8	LVC (http://www.ti.com/lit/gpn/sn74lvc2g132)
74x2G240	dual inverter gate, active-low enable		three-state	8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G240.pdf)
74x2G241	dual buffer, active-low and active-high enables		three-state	8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC2G241.pdf)
74x2G0604	dual combo gates - one inverter, one inverter with O.D.		open-drain	6	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP2G0604.pdf)
74x2G3404	dual combo gates - one buffer, one inverter			6	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP2G3404.pdf)
74x2G3407	dual combo gates - one buffer, one buffer with O.D.		open-drain	6	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP2G3407.pdf)

Three-gate chips

All chips in this section have three gates, noted by the "3G" in the part numbers.

Part number	Description	Input	Output	Pins	Datasheet
74x3G04	triple inverter gate			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC3G04.pdf)
74x3G06	triple inverter gate	schmitt trigger	open-drain	8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC3G06.pdf)
74x3G07	triple buffer gate	schmitt trigger	open-drain	8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC3G07.pdf)
74x3G14	triple inverter gate	schmitt trigger		8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC3G14.pdf)
74x3G16	triple buffer gate			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC3G16.pdf)
74x3G17	triple buffer gate	schmitt trigger		8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC3G17.pdf)
74x3G34	triple buffer gate			8	LVC (https://assets.nexperia.com/documents/data-sheet/74LVC3G34.pdf)
74x3G0434	triple combo gates - two inverter, one buffer			8	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP3G0434.pdf)
74x3G3404	triple combo gates - two buffer, one inverter			8	AUP (https://assets.nexperia.com/documents/data-sheet/74AUP3G3404.pdf)

Voltage translation

All chips in this section have **two** power-supply pins to translate unidirectional logic signals between two different logic voltages. The logic families that support dual-supply voltage translation are AVC, AVCH, AXC, AXCH, AXP, LVC, where the "H" in AVCH and AXCH means "bus hold" feature.

Part number	Description	Pins	AXC	AXP	LVC
74x1T45	1 buffer	6	AXC (https://www.ti.com/lit/gpn/SN74AXC1T45)	AXP (https://www.nexperia.com/products/analog-logic-ics/asynchronous-interface-logic/voltage-translators-level-shifters/series/74AXP1T45.html)	LVC (https://www.ti.com/lit/gpn/SN74LVC1T45)
74x2T45	2 buffers	8	AXC (https://www.ti.com/lit/gpn/SN74AXC2T45)	AXP (https://www.nexperia.com/products/analog-logic-ics/asynchronous-interface-logic/voltage-translators-level-shifters/series/74AXP2T45.html)	LVC (https://www.ti.com/lit/gpn/SN74LVC2T45)
74x4T245	4 buffers	16	AXC (https://www.ti.com/lit/gpn/SN74AXC4T245)	AXP (https://www.nexperia.com/products/analog-logic-ics/asynchronous-interface-logic/voltage-translators-level-shifters/series/74AXP4T245.html)	n/a
74x8T245	8 buffers	24	AXC (https://www.ti.com/lit/gpn/SN74AXC8T245)	AXP (https://www.nexperia.com/products/analog-logic-ics/asynchronous-interface-logic/voltage-translators-level-shifters/series/74AXP8T245.html)	LVC (https://www.ti.com/lit/gpn/SN74LVC8T245)
74x16T245	16 buffers	48	n/a	n/a	LVC (https://www.ti.com/lit/gpn/SN74LVC16T245)

Chips in the above table support the following voltage ranges on either power supply pin:

- AXC = 0.65 to 3.6 V. Only available from Texas Instruments.
- AXP = 0.9 to 5.5 V. Only available from Nexperia.
- LVC = 1.65 to 5.5 V. Available from Diodes Inc, Nexperia, Texas Instruments.

See also

- 4000-series integrated circuits
- List of 4000-series integrated circuits
- Push–pull output, Open-collector output, Three-state output
- Schmitt trigger input
- Logic gate, Logic family
- Programmable logic device
- Pin compatibility

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