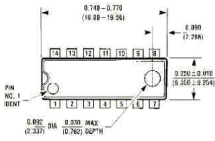


## Datasheets

Written by Hans Summers

Sunday, 02 January 2011 11:57 - Last Updated Sunday, 02 January 2011 12:14

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[CLICK HERE](#) for the TTL and CMOS logic listings!



This page contains links to datasheets for all the IC's used in my projects, click the part number to read the datasheet. Some of these I scanned myself, others are located on others' pages or the manufacturer's website. If there are any broken links tell me. To read these datasheets you need to [install Adobe Acrobat](#) if you haven't already done so. The scanned datasheets are sometimes easiest to read if you select "Actual Size" in Adobe Acrobat's "View" menu.

A number of these parts are obsolete, and several more will probably become obsolete very soon. I have saved local copies of all of the datasheets linked here, so that they will be preserved if the manufacturers decide to remove the datasheets from their websites. In this case I will replace the URL with a local link. If you find any broken links, let me know.

Many IC's are made by multiple manufacturers, and there have been many rounds of mergers, acquisitions and consolidations in the semiconductor industry. Therefore the manufacturers listed here are not necessarily the ones whose IC's I used, but in all cases chips from a different manufacturer should be interchangeable. In general 74nn chips and 74LSnn chips can also be interchanged, I simply used what was available to me at the time.

Part	Description	<a href="#">Manufacturer</a>	Size	Notes
<a href="#">74100</a> <a href="#">[See Note 1]</a>	Dual 4-bit Latch	<a href="#">Texas Instruments</a>	83K	Thanks Walter PE1A
<a href="#">74284</a>	4-bit binary Multiplier, low	<a href="#">Texas Instruments</a>	231K	

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<a href="#">74285</a>	4-bit binary Multiplier, high	<a href="#">Texas Instruments</a>	231K	
<a href="#">4011</a>	Quad 2-input NAND gate	<a href="#">Fairchild Semiconductor</a>	105K	
<a href="#">4013</a>	Dual D-type Flip-Flop	<a href="#">Fairchild Semiconductor</a>	75K	
<a href="#">4017</a>	Decoded output Decade Counter	<a href="#">Fairchild Semiconductor</a>	78K	
<a href="#">4020</a>	14-bit binary Ripple Counter	<a href="#">Fairchild Semiconductor</a>	83K	
<a href="#">4022</a>	Divide-by-8 counter/divider	<a href="#">Fairchild Semiconductor</a>	78K	
<a href="#">4026</a>	Decade counter with 7-segment output	<a href="#">STMicroelectronics</a>	84K	
<a href="#">74HC4040</a>	12-bit binary Ripple Counter	<a href="#">Fairchild Semiconductor</a>	99K	
<a href="#">4040</a>	12-bit binary Ripple Counter	<a href="#">Fairchild Semiconductor</a>	83K	
<a href="#">74HC4060</a>	14-bit binary Ripple Counter	<a href="#">Fairchild Semiconductor</a>	85K	
<a href="#">4060</a>	14-bit binary Ripple Counter	<a href="#">Fairchild Semiconductor</a>	83K	
<a href="#">4068</a>	8-input NAND/AND gate	<a href="#">Texas Instruments</a>	182K	
<a href="#">4069</a>	Quad Unbuffered inverter	<a href="#">Fairchild Semiconductor</a>	79K	
<a href="#">4081</a>	Quad 2-input AND gate	<a href="#">Fairchild Semiconductor</a>	97K	
<a href="#">4511</a>	BCD to 7-Segment Decoder/Driver	<a href="#">Fairchild Semiconductor</a>	66K	
<a href="#">4518</a>	Dual 4-bit binary counter	<a href="#">Texas Instruments</a>	248K	
<a href="#">4538</a>	Dual monostable multivibrator	<a href="#">Fairchild Semiconductor</a>	138K	
<a href="#">4464</a>	64K x 4 Dynamic RAM	Samsung	475K	<a href="#">[Note 2]</a>
<a href="#">6264</a>	8K x 8 Static RAM	<a href="#">Hitachi Semiconductor</a>	83K	
<a href="#">44256</a>	256K x 4 Dynamic RAM	<a href="#">OKI Semiconductor</a>	244K	
<a href="#">62256</a>	32K x 8 Static RAM	<a href="#">Hitachi Semiconductor</a>	143K	
<a href="#">431000</a>	128K x 8 Static RAM	<a href="#">NEC</a>	194K	
<a href="#">28C64</a>	8K x 8 CMOS EEPROM	<a href="#">Microchip Technology Inc</a>	660K	

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<a href="#">74C917</a>	6-Digit Hex Display Control	<a href="#">National Semiconductor</a>	475K	Scan of my p
<a href="#">PCM54</a>	16-bit Digital to Analog converter	<a href="#">Riverside</a>	64K	
<a href="#">UM70C171</a>	Colour Palette with 3 x 6- bit DAC	<a href="#">United Microelectronics</a>	1,330K	Scan of m
<a href="#">Z80</a>	Z80 8-bit microprocessor	<a href="#">Zilog</a>	1,512K	Scan
<a href="#">te 3]</a>				<a href="#">[No</a>
<a href="#">Z8400</a>	Z80 8-bit microprocessor	<a href="#">SGS-Thomson (ST Microelectronics)</a>	2,407K	Z8400 =
<a href="#">MK3880</a>	Z80 8-bit microprocessor	<a href="#">Mositek</a>	2,980K	92-page manu
<a href="#">555</a>	Timer	<a href="#">National Semiconductor</a>	401K	
<a href="#">741</a>	Operational Amplifier	<a href="#">National Semiconductor</a>	177K	
<a href="#">7660</a>	Switched capacitor voltage converter	<a href="#">National Semiconductor</a>	135K	
<a href="#">7805</a>	+5V Voltage Regulator (LM340T-5.0)	<a href="#">National Semiconductor</a>	515K	
<a href="#">7812</a>	+12V Voltage Regulator (LM340T-12)	<a href="#">National Semiconductor</a>	515K	
<a href="#">7912</a>	-12V Voltage Regulator (LM320L-12)	<a href="#">National Semiconductor</a>	151K	
<a href="#">CA3140</a>	Operational Amplifier	<a href="#">Intersil Corp</a>	1.01M	
<a href="#">CA3240</a>	Dual Operational Amplifier	<a href="#">Intersil Corp</a>	399K	
<a href="#">L4960</a>	2.5A Power Switching Regulator	<a href="#">STMicroelectronics</a>	190K	
<a href="#">LF398</a>	Sample and Hold Circuit	<a href="#">National Semiconductor</a>	520K	
<a href="#">LM317</a>	Variable Voltage Regulator	<a href="#">National Semiconductor</a>	646K	
<a href="#">LM324</a>	Quad Operational Amplifier	<a href="#">National Semiconductor</a>	466K	
<a href="#">LM759</a>	Power Operational Amplifier	<a href="#">National Semiconductor</a>	207K	
<a href="#">MM5387</a>	Alarm Clock	<a href="#">National Semiconductor</a>	511K	More:
<a href="#">Pinout and notes</a>				
<a href="#">MAX7219</a>	8-digit LED Display Driver	<a href="#">MAXIM</a>	187K	

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[MAX7221](#) 8-digit LED Display Drivers [MAXIM](#) 187K

**[Note 1]** The [74100](#) is a dual 4-bit latch, and I used four in my [frequency counter project](#). This device has long been obsolete and was never made in a 74LS100 version. It is so obsolete I couldn't find its datasheet anywhere on the web. It was packaged in a 24-pin DIL and several pins were unused. Suitable replacements would be the

[74LS373](#)

or

[74LS273](#)

. The reason I used the 74100 was that most of my projects were made out of scrap, and usually designed around whatever parts I could find: in this case I just happened to find four 74100's. On 20-Dec-03 I received an email from

[Walter Geeraert PE1ABR](#)

in which he attached the

[74100 datasheet](#)

, many thanks Walter!

**[Note 2]** Thanks to Jos Leandro for telling me about the [4464](#) (64K x 4-bit dynamic RAM) datasheet he hosts on his excellent web page

<http://hardware.speccy.org/>

**[Note 3]** This [Z80](#) datasheet was scanned from my old paper copy. This is an original [Zilog](#) datasheet, not one of the licensed Z80 equivalents such as the

[Z8400](#)

by

[ST Microelectronics](#)

. As far as I know this is the ONLY online Zilog Z80 datasheet. The

[Z8400](#)

datasheet does give more detailed information on various aspects of the Z80.

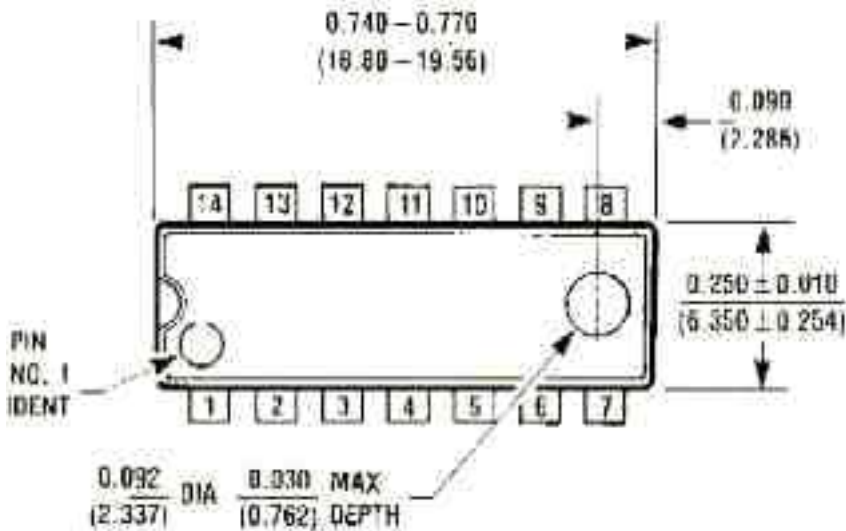
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## Manufacturers



[Hitachi Semiconductor](#)

[Fairchild Semiconductor](#)

[Texas Instruments](#)

[Burr-Brown](#)

[Micropchip Technology Inc](#)

[NEC](#)

[Intersil Corp](#)

[National Semiconductor](#)

[ST Microelectronics](#)

[United Microelectronics \(UMC\)](#)

[OKI Semiconductor](#)

[Zilog](#)

[MAXIM](#)

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