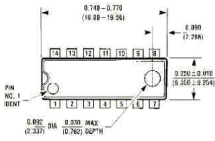


## Datasheets

Written by Hans Summers

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

---



[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	

## Datasheets

Written by Hans Summers

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

---

<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	

## Datasheets

Written by Hans Summers

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

---

<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-to-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	

## Datasheets

Written by Hans Summers

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

---

[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.

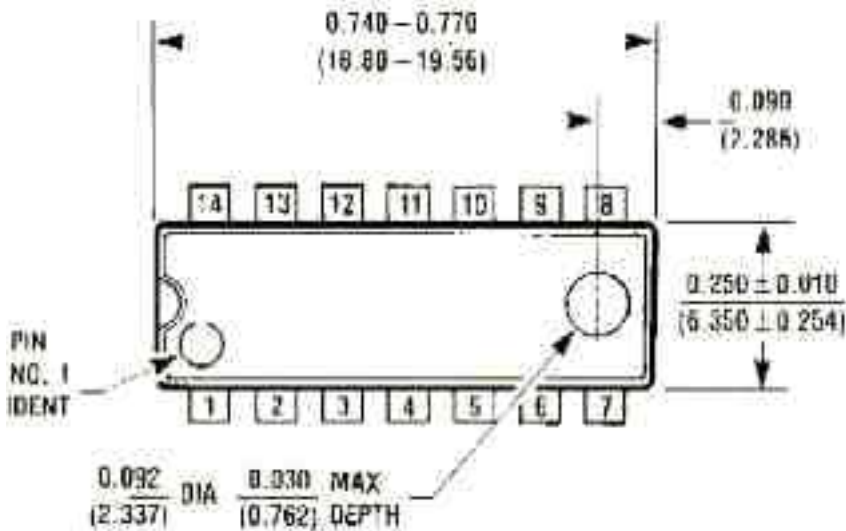
## Datasheets

Written by Hans Summers

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

---

## 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](#)

## Search list of datasheets

74ls00 datasheet, 74ls02 datasheet, 74ls04 datasheet, 74ls08 datasheet, 74ls11 datasheet, 7414 datasheet, 74ls14 datasheet, 74ls20 datasheet, 74ls30 datasheet, 74ls32 datasheet, 74ls47 datasheet, 74ls48 datasheet, 74ls74 datasheet, 74ls86 datasheet, 74ls90 datasheet, 74ls93 datasheet, 74100 datasheet, 74ls132 datasheet, 74ls138 datasheet, 74ls151 datasheet, 74ls153 datasheet, 74ls154 datasheet, 74ls157

## Datasheets

Written by Hans Summers

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

---

datasheet, 74ls161 datasheet, 74ls163 datasheet, 74ls165 datasheet, 74ls166 datasheet, 74ls175 datasheet, 74ls181 datasheet, 74ls193 datasheet, 74ls244 datasheet, 74ls245 datasheet, 74ls257 datasheet, 74ls260 datasheet, 74ls273 datasheet, 74284 datasheet, 74285 datasheet, 74ls367 datasheet, 74ls373 datasheet, 74ls374 datasheet, 74ls390 datasheet, 74ls393 datasheet, 4011 datasheet, 4013 datasheet, 4017 datasheet, 4020 datasheet, 4022 datasheet, 4026 datasheet, 74hc4040 datasheet, 4040 datasheet, 74hc4060 datasheet, 4060 datasheet, 4068 datasheet, 4069 datasheet, 4081 datasheet, 4511 datasheet, 4518 datasheet, 4538 datasheet, 4464 datasheet, 6264 datasheet, 44256 datasheet, 62256 datasheet, 431000 datasheet, 28c64 datasheet, 74c917 datasheet, pcm54 datasheet, um70c171 datasheet, z80 datasheet, z8400 datasheet, 555 datasheet, 741 datasheet, 7660 datasheet, 7805 datasheet, 7812 datasheet, 7912 datasheet, ca3140 datasheet, ca3240 datasheet, l4960 datasheet, lf398 datasheet, lm317 datasheet, lm324 datasheet, lm759 datasheet, mm5387 datasheet, mk3880 datasheet, max7219 datasheet, max7221 datasheet