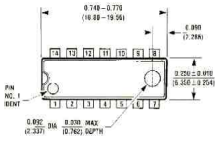


Datasheets

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	Manufacturer	Size	Notes
74100 [See Note 1]	Dual 4-bit Latch	Texas Instruments	83K	Thanks Walter PE1A
74284	4-bit binary Multiplier, low	Texas Instruments	231K	

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

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

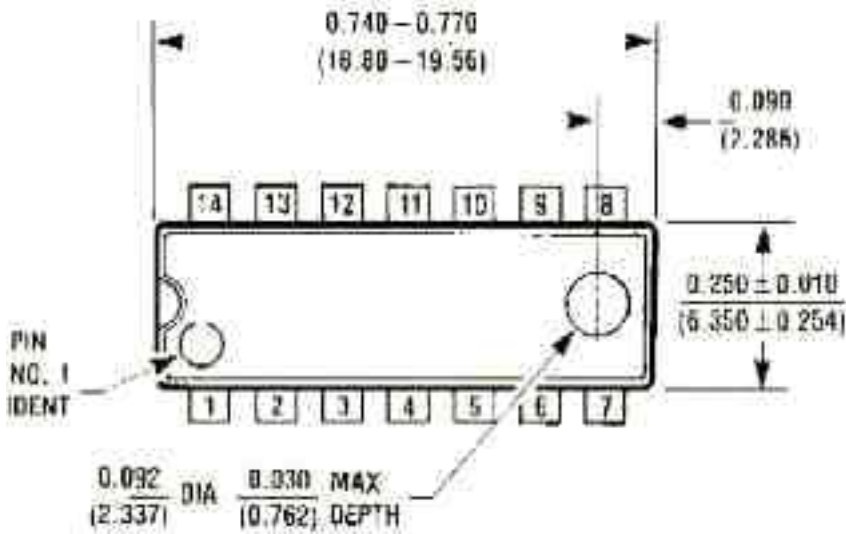
datasheet does give more detailed information on various aspects of the Z80.

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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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