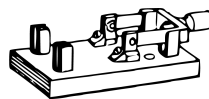


# One Byte Hex Display Bill of Materials



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Part	Value	Remarks	Quantity	Reference	Provided
<b>Standoffs</b>	M3, 2 cm	stands long <sup>1</sup>	[2]		
	M3, 1 cm	stands short <sup>1</sup>	4 [2]		
	M3	nuts <sup>1</sup>	4 [3]		
	M3	bolt <sup>1</sup>	[1]		
<b>Pin header</b>	1 x 2 pin	male horizontal	1	J2	
	1 x 2 pin	male vertical	1	JP1	
	1 x 9 pin	male vertical	1	J3	
	1 x 10 pin	male-male vertical with rounded pins <sup>1</sup>	[2]	J1	
<b>Jumper</b>	1 x 2 pin	jumper	1	JP1	
<b>Socket</b>	16 pin	<i>optional</i>	2	U2, U3	
	20 pin	<i>recommended</i> <sup>2</sup>	1	U1	
<b>Resistor</b>	2 kΩ	1/4 W - red, black, black, brown, brown	1	R1	
<b>IC</b>	DM9368	7-Segment Decoder/Driver/Latch	2	U2, U3	
	74LS374 <sup>3</sup>	Octal D-Type Edge Triggered Flip-Flops with 3-State Outputs	1	U1	X
<b>LED Display</b>	7-segment	For example, Kingbright SC56 11SRWA <sup>4</sup>	2	AFF1, AFF2	

## Notes:

- 1) These parts are needed when connected with the ASCII Keyboard Tester (quantity between brackets).
- 2) Recommended, to be able to reuse the 74LS374 of the ASCII Keyboard Tester as well.
- 3) Optional, the 74LS374 of the ASCII Keyboard Tester can be reused.
- 4) Use common cathode 7-segment LED displays only. See the datasheet of the Kingbright display for compatibility with other displays.

## Important:

- Use the 20 pin IC socket (at position U1) as a guide to solder the 2 x 10 pin male-male pin headers perfectly right-angled (at position J1).
- The *Power Supply* connector (J2) and *Data In* connector (J3) are there for stand-alone usage of the board only. When used on top of the ASCII Keyboard Tester, the power and data is supplied to the board through connector J1.