

## GM5x5x5 Parts List for Allied Electronics

This is a price list to be used with [Allied Electronics](#) for the [gm5x5x5](#) module, version 1.1 (Red PCB). One of the reason I prefer Allied over, say, [Mouser](#) is faster shipping to my house (turn around time is 1 day at the cheapest shipping most of the time). Mouser has a larger selection, however, though Allied does offer some items cheaper and their customer service has always been extremely nice and helpful.

The list below is what I used to build my own gm5x5x5, though one substitution I would make is using DIL headers for the jumpers S1-S3 and J8 jumpers.

Sorry there is not a nice link to a pre-populated cart. I saved my own cart but there appears to be no way to offer it publicly. :(

| Item                     | Allied Stock # | Qty | Notes  |
|--------------------------|----------------|-----|--|
| Crystal (16Mhz)          | 895-0691       | 1   |  |
| LED 3mm (Red)            | 670-1058       | 11  | They are expensive and I don't know what resistor value you might need. By these from <a href="#">SmashTV</a> instead) |
| Diode                    | 935-0242       | 5   |  |
| Optocoupler              | 787-0137       | 5   |  |
| Hex Inverter             | 236-1747       | 5   |  |
| USB Type B Socket        | 374-0052       | 1   |  |
| MIDI Socket              | 932-0200       | 10  |  |
| 40-pin breakaway headers | 374-1768       | 1   | Also may want to buy from SmashTV  |
| DIP Socket (8 position)  | 374-5534       | 6   |  |
| DIP Socket (14 position) | 374-5532       | 5   |  |
| EEPROM                   | N/A            | 0   | I didn't use one and I also couldn't find a 24C04 specifically in a DIP package  |
| Resistor - 220 Ohm       | 296-4751       | 15  |  |
| Resistor - 1K Ohm        | 296-4741       | 18  |  |
| Resistor - 27 Ohm        | 296-4759       | 1   |  |
| Resistor - 4.7k Ohm      | 296-4769       | 1   |  |
| Capacitor - 100nF        | 507-0211       | 6   |  |
| Capacitor - 10uF         | 613-0124       | 1   |  |
| Capacitor - 22pF         | 507-0201       | 2   |  |
| Capacitor - 1uF          | 507-0606       | 1   |  |
| Jumper                   | 863-0403       | 5   |  |
| Total                    | \$39.17        |     |  |

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