

(Updated List)

Components List of Controller Board

| Sr. No. | Component Name | Value | Quantity |
|---------|---|---------------------------|----------|
| 1. | Atmega8 uC | 5V, 8MHz | 1 |
| 2. | Crystal (CMX-7X-DU) | 8MHz | 1 |
| 3. | Capacitor (C0805) | 100nF, 0.1uF (Ceramic) | 2, 2 |
| 4. | Capacitor (C0805) | 10nF, 22pF | 1, 2 |
| 5. | Tantalum Capacitor (A/3216-18R) | 10uF | 1 |
| 6. | Resistor (M0805) | 0 Ohm, 10K | 2, 1 |
| 7. | Resistor (M0805) | 4.7K ohm | 1 |
| 8. | Resistor (M0805) | 140 ohms | 1 |
| 9. | Inductor (MS42) (PTH) | 10uH | 1 |
| 10. | Diode (1N4148) | N/A | 1 |
| 11. | LED (LED0805) | RED | 1 |
| 12. | N-Channel Mosfet (IRFZ44N) | TO202 | 2 |
| 13. | Power Resistor | 2.5ohm, 10Watt | 1 |
| 14. | Power Resistor | 25ohm, 1Watt | 1 |
| 15. | Jumper 1-ISP (10X06MTA) | 6 PINS | 1 |
| 16. | Jumper 2-3- RIGHT/LEFT (10X08MTA) | 8 PINS | 2 |
| 17. | Jumper 4- LCD (10X10MTA) | 12 PINS | 1 |
| 18. | Jumper 5- LM35 (10X03MTA) | 3 PINS | 1 |
| 19. | Jumper 6- FAN (10X02MTA) | 2 PINS | 1 |

List of Peripherals Connected to Main Board

| Sr. No. | Name | Model No. | Value | Quantity |
|----------------|-------------------|------------------|---------------|-----------------|
| 1 | LM35 (Waterproof) | DS18B20 | 3V – 5.5V | 1 |
| 2 | LCD (16 X 2) | 16 x 2 | 3.3V – 5V | 1 |
| 3 | DC FAN | N/A | 5V | 1 |
| 4 | Li-ion Battery | N/A | 3.7V, 2000mAh | 2 |
| 5 | HEAT SINK | Centlot 40mm | N/A | 2 |
| 6 | Charger Module | TP4056 1A Li-ion | N/A | 1 |
| 7 | Boost Module | XL6009 | N/A | 2 |

NOTE:

*** All the Components are SMD components except IRFZ44N Mosfets, Power Resistors and an Inductor.**