

Bill Of Materials for GPRS/GPS Tracker

Design Title GPRS/GPS Tracker
Author Paulo Loma Marconi
Document Number 1
Revision 1.0
Design Created Wednesday, 4 February, 2015
Design Last Modified Saturday, 12 July, 2025
Total Parts In Design 68

0 Modules

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| Sub-totals: | | | | \$0.00 |

0 Capacitors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| Sub-totals: | | | | \$0.00 |

0 Resistors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| Sub-totals: | | | | \$0.00 |

5 Integrated Circuits

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| 1 | U1 | ATMEGA328P | | |
| 1 | U2 | LM324 | | |
| 1 | U3 | LM317T | | |
| 1 | U4 | LM35 | | |
| 1 | U7 | 7805 | | |
| Sub-totals: | | | | \$0.00 |

0 Transistors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| Sub-totals: | | | | \$0.00 |

0 Diodes

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| Sub-totals: | | | | \$0.00 |

63 Miscellaneous

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|---------------------------|--------------|-------------------|------------------|
| 2 | AC,ENV | LED-GREEN | | |
| 2 | ACIN,BAT1 | SIL-100-02 | | |
| 1 | CC1 | 3.3nF | | |
| 1 | CC10V | 220uF | | |
| 2 | CC400V,CC50V | 2.2uF | | |
| 1 | CON | LED-RED | | |
| 5 | CR1,CR4,CU3-CU5 | 100nF | | |
| 1 | CR2 | 1uF | | |
| 1 | CR3 | 330nF | | |
| 1 | CRYU1 | CRYSTAL | | |
| 2 | CU1-CU2 | 22pF | Maplin WX56L | |
| 1 | DB1 | FR104 | | |
| 2 | DC1,DU1 | 1N4007 | | |
| 1 | DC2 | 6.8V | | |
| 2 | DC3-DC4 | 1N4148 | | |
| 1 | DC5 | 5819 | | |
| 1 | FTDI1 | FTDI232RL | | |
| 1 | GPS1 | GPS | | |
| 2 | OPTO,TEMP | CONN-SIL3 | | |
| 6 | POTB1,RA2-RA3,RB1-RB2,RU1 | 10k | | |

| | | | |
|-------------|-----------------|---------------------|--------|
| 2 | POTR1,RA4 | 5k | |
| 1 | PROX | CONN-SIL4 | |
| 1 | QA1 | BC548 | |
| 1 | QB1 | 2N2222 | |
| 1 | QC1 | S8050 | |
| 1 | QC2 | MJ13001 | |
| 1 | RA1 | 1k | |
| 1 | RB3 | 22k | |
| 3 | RB4,RT1,RT3 | 100 | |
| 1 | RC1 | 8.2R | |
| 1 | RC2 | 1M | |
| 1 | RC3 | 10R | |
| 1 | RC4 | 470R | |
| 1 | RC5 | 330R | |
| 1 | RESET | | |
| 1 | RO3 | 47k | |
| 1 | RR1 | 220R | |
| 4 | RT2,RT4,RU2-RU3 | 330 | |
| 1 | SCARD1 | SOCALOS_ARDUINO_UNO | |
| 1 | SIM1 | SIM900 | |
| 1 | TRC1 | TRAN-1P2S | |
| Sub-totals: | | | \$0.00 |
| Totals: | | | \$0.00 |

Saturday, 12 July, 2025 02:19:16