

OPEN-ROBOT w/ GM8s and MatchPort b/g

| QTY | Part# | Description | Price | Total | Where? |
|-----|--------------------------|---|---------|---------|--|
| 1 | GC-MATCHPORT-G-01 | MatchPort b/g Module | \$75.00 | \$75.00 | www.gridconnect.com |
| 1 | GC-WIIPORT-ANT | MatchPort Rubber Antenna | \$7.00 | \$7.00 | www.gridconnect.com |
| 1 | GC-MATCHPORT-CAB-UFL-SMA | Matchport cable U.FL to Reverse SMA | \$3.00 | \$3.00 | www.gridconnect.com |
| 1 | MatchPort/SRV1-PCB | MatchPort/XBee/SRV-1 Board | \$34.35 | \$34.35 | www.abotics.com |
| 1 | 66 | Tamiya Ball Caster Pair (\$5.95) | \$2.98 | \$2.98 | www.pololu.com |
| 2 | R246-GM8 | GM8 Gearmotor | \$6.00 | \$12.00 | www.acroname.com |
| 2 | R249-BLACK-GM-WHEEL | GM8 Wheel | | | www.acroname.com |
| 2 | | GP2D120 Mounts | \$0.50 | \$1.00 | www.abotics.com |
| 2 | IR_Cable | Sharp GP2D120 JST Cable | \$2.99 | \$5.98 | www.roboticsconnection.com |
| 2 | GP2D120 | Sharp GP2D120 | \$8.99 | \$17.98 | www.roboticsconnection.com |
| 4 | 133605 | 3/4"x3/16" Female-Female Threaded 4-40 Hex Standoff | \$0.39 | \$1.56 | www.jameco.com |
| 2 | | GM8 Motor mount | \$6.25 | \$12.50 | www.emachineshop.com |
| 1 | | Robot Base, 1/8" Acrylic | \$5.50 | \$5.50 | www.pololu.com |
| 1 | | PCB Deck, 1/8" Acrylic | \$3.50 | \$3.50 | www.pololu.com |
| 1 | | MatchPort Deck | \$3.50 | \$3.50 | www.pololu.com |
| 2 | | 8-32 x 0.25" Truss Screw | \$0.05 | \$0.10 | www.mcmastercar.com |
| 8 | 106810 | 4-40 x 1/2" Pan Head Machine Screw | \$0.04 | \$0.34 | www.jameco.com |
| 9 | 40970 | 4-40 x 3/8" Pan Head Machine Screw | \$0.02 | \$0.16 | www.jameco.com |
| 22 | 40943 | 4-40 Nut (100 for \$2.50) | \$0.04 | \$0.77 | www.jameco.com |
| 1 | | OPEN-ROBOT Controller Board | \$28.20 | \$28.20 | www.abotics.com |
| 4 | | 3M Dual-Lock Recloseable Tape (units of inches) | \$0.25 | \$1.00 | www.fastenation.com |

Complete OPEN-ROBOT + MatchPort + RFID \$234.42
Estimated Shipping Charges from: Jameco, Mouser, GridConnect, etc... \$50.00
Approximate Total Cost \$284.42

****NOTE: Some items require you to purchase more than is required
This price increase is not reflected in the Approximate Total!**

| Custom PCB Pricing from ExpressPCB | |
|------------------------------------|---------|
| Number of Boards Purchased | 100 |
| Production Service | 473.575 |
| Price Per Board | 4.73575 |

OPEN-ROBOT Board (JAMECO)

| QTY | Part# | Description | | Where? |
|-----|--------------------|--|--------|--|
| 1 | 579-PIC18F4520-I/P | PIC18F4520 40-Pin Chip | 10.010 | www.mouser.com |
| 1 | 324671 | 20 MHZ Ceramic Resonator w/capacitors(100) | 0.279 | www.jameco.com |
| 1 | 1054684 | SN754410NE 16-Dip H-Bridge (100) | 1.070 | www.jameco.com |
| 0 | CY8C0105-B5 | RFID Module (10+) | 10.600 | www.sonmicro.com |
| 0 | Q5(T5555) | Q5 ISO T5555 Tag (10+) | 3.000 | www.sonmicro.com |
| 0 | IND-125 | Antennae(11+) | 2.900 | www.sonmicro.com |
| 0 | PRT-08614 | RFID Antenna Cable | 1.500 | www.sparkfun.com |
| 1 | PCB | Custom PCB From Express PCB (100) | 4.736 | www.expresspcb.com |
| 2 | 651-1725656 | 2-Pos Terminal Block | 0.970 | www.mouser.com |
| 1 | 108338 | 2 Pos Non-Polarized Header | 0.200 | www.jameco.com |
| 5 | 117560 | 4-Pos Non-Polarized Header | 0.210 | www.jameco.com |
| 1 | 153699 | 6-Pos Non-Polarized Right Angle Header | 0.25 | www.jameco.com |
| 1 | 253681 | T-100 Green LED | 0.260 | www.jameco.com |
| 3 | 33486 | 0.1 uF Tantalum Capacitor, 35volt | 0.230 | www.jameco.com |
| 1 | 41111 | 40 Pin IC Socket (10+) | 0.250 | www.jameco.com |
| 1 | 40301 | 28 Pin IC Socket (0.6" w/0.1" pin to pin) (10) | 0.171 | www.jameco.com |
| 1 | 37372 | 16 Pin IC Socket (10) | 0.090 | www.jameco.com |
| 2 | 192313 | LM1086CT-5.0 +5volt 1.5 Amp Regulator | 1.490 | www.jameco.com |
| 1 | 216215 | (6)- AA Holder | 0.890 | www.jameco.com |
| 1 | 108206 | 47k Ohm resistor (100) | 0.007 | www.jameco.com |
| 5 | 108089 | 4.7k Ohm resistor (100) | 0.007 | www.jameco.com |
| 1 | 108062 | 2.7k Ohm resistor (100) | 0.007 | www.jameco.com |
| 7 | 108011 | 1k Ohm resistor (100) | 0.007 | www.jameco.com |
| 2 | 202403 | 3k - 200k Ohm Photocell | 1.490 | www.jameco.com |
| 2 | 29964 | 100 uf radial capacitor (10) | 0.078 | www.jameco.com |
| 2 | 93745 | 33uf radial capacitor (10) | 0.050 | www.jameco.com |

Total without PCB

\$23.46

Total with PCB

\$28.20

MatchPort/XBee/SRV-1 Board

| QTY | Part# | Description | Price | Total | Where? |
|-----|--------------------|---|---------|---------|-----------------------|
| 4 | PRT-08272 | 2mm 10-Pin Sockets | \$1.25 | \$5.00 | SparkFun |
| 1 | | PCB from Express PCB (100+) | \$3.78 | \$3.78 | PCB Express |
| 1 | 204142 | SWITCH,MINI SLIDE,SPDT (10) | \$0.19 | \$0.19 | Jameco |
| 4 | 538-22-03-2021 | 0.1" 2-position non-polarized header | \$0.12 | \$0.48 | Mouser |
| 2 | 151-8010-E | 0.1" jumper | \$0.12 | \$0.24 | Mouser |
| 2 | 651-1725656 | 2-Pos Terminal Block | \$1.03 | \$2.06 | Mouser |
| 1 | 651-1725669 | 3-Pos Terminal Block | \$1.57 | \$1.57 | Mouser |
| 1 | 595-SN74HC245DWR | SN74HC245 | \$0.44 | \$0.44 | Mouser |
| 1 | 595-SN74LVC245ADWR | SN74LVC245 | \$0.44 | \$0.44 | Mouser |
| 1 | DE-SW033 | SWITCHING REGULATOR, 1.0 AMP, SIP 3, 3.3V (20+) | \$15.00 | \$15.00 | Dimension Engineering |
| 1 | ESQ-116-23-T-D | Samtec 32-Pin Connector | \$5.00 | \$5.00 | abotics |
| 5 | | 6" of 24 Gauge Wire | \$0.03 | \$0.15 | Jameco |

Total \$19.35
Total w/DE-SW033 \$34.35