

List of Items Available in the Laboratory

Category *Component*

Item Description	Unit Price
555 Timer	\$0.30
5V Relay	\$3.50
74xxx Series IC Chip	\$0.30
Battery - 12V (rechargeable Lead-acid type)	\$16.00
Battery - 6V (rechargeable Lead-acid type)	\$8.00
Battery Clip - 9V	\$0.15
Battery Holder - 2xAA	\$0.50
Battery Holder - 4xAA	\$0.60
Battery Holder - 9V	\$1.00
Binding Post	\$0.70
Buzzer - PCB Mount	\$1.00
Buzzer - Piezo	\$3.00
CA3081 Transistor Array	\$0.50
CA3082 Transistor Array	\$0.50
Cable - Ribbon (1ft)	\$0.80
Cable for BackLight LCD Module	\$2.00
CD4017 Decade Counter	\$0.30
CD4066 Quad Bi-Lateral Switch	\$0.50
Connector - 15 Way Female D	\$0.20
Connector - 9 Way PCB Mount	\$0.70
Connector - Black Socket (2 / 3 / 4 Way)	\$0.10
Connector - White Plug (2 / 3 Way)	\$0.25

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Connector - White Socket (2 / 3 Way)	\$0.25
Crimp Pins for Black Connector (per pin)	\$0.02
Crimp Pins for White connector (per pin)	\$0.04
Diode 1N4002 - Rectifier	\$0.20
Diode 1N4148 - Signal	\$0.20
Fuse holder	\$0.20
Header - 40x1 Straight PCB Header	\$0.20
Header - 40x2 Straight PCB Header	\$0.35
Header - 9 Pin DIL	\$0.20
Heatsink (for L298 Motor Driver)	\$0.50
Humidity Sensor (Farnell: 1226685)	\$7.00
IC Socket - 40 Pin	\$0.80
IC Socket (8 / 14 / 16 / 18 / 20 / 24 / 28 Pin)	\$0.30
IDC Plug (10 / 14 / 20 Way)	\$0.35
IDC Socket (10 / 14 / 20 Way)	\$0.35
Inductor - 330uH	\$0.30
IR Receiver TIL81	\$0.50
IR Transmitter TIL38	\$0.50
Keypad (Membrane type)	\$7.00
Keypad (Membrane type) [Recycled] * While stocks last!	\$3.50
L293D Motor Driver	\$2.20
L293E Motor Driver	\$7.50
L297 Stepper Motor Driver	\$3.00
L298 Motor Driver	\$3.00

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Item Description	Unit Price
L6210 Diode Bridge	\$2.20
LCD Module (Sanyo DM1622) [Recycled]	\$4.50
LCD Module with BackLight	\$7.50
LCD Module with BackLight [Recycled] * While stocks last!	\$3.75
LDR	\$0.30
LED - (Red / Amber / Green)	\$0.10
LED - 7 Segment C.A	\$0.50
LED - 7 Segment C.C	\$0.50
LED - Blue	\$0.30
LED - Orange	\$0.15
LED - White	\$0.15
LED Bar (10-channel)	\$0.80
LM311 Operational Amplifier	\$0.50
LM324 Operational Amplifier	\$0.50
LM339 Quad Comparator	\$0.50
LM358 Operational Amplifier	\$0.50
LM35DZ Temperature Sensor	\$1.50
LM3914 LED Bar Driver	\$1.15
LM3915 LED Bar Driver	\$1.15
LM741 Operational Amplifier	\$0.50
LM747 Operational Amplifier	\$0.50
MAX233CPP RS-232 Driver	\$6.50
Mini Project Package A	\$4.60
Mini Project Package B	\$33.35

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Item Description	Unit Price
Mini Project Package B [Recycled Servo]	\$20.85
Mini Project Package C	\$20.40
Mini Project Package C [Recycled Keypad & LCD]	\$13.15
Mini Project Package D	\$4.35
MOSFET IRF630 N-Channel	\$0.75
MOSFET IRF9630 P-Channel	\$0.75
Motor - 12V DC Geared (Farnell: 147-874)	\$50.00
Motor - 1V to 12V DC (Big)	\$2.20
Motor - 1V to 12V DC (Small)	\$0.50
Oscillator 20MHz Half-Size	\$0.45
Oscillator 20MHz Module	\$2.00
Oscillator 3.6864MHz	\$0.55
PCB Stand - Black	\$0.70
PCB Stand - Copper	\$0.15
PIC16F877-20/P Microcontroller	\$7.50
PIC16F877-20/P Microcontroller [Recycled] * While stocks last!	\$3.75
Potentiometer (5K / 10K / 25K / 100K / 1M ohm)	\$0.50
Power Resistor	\$0.30
Resistor Array 10Kohm	\$0.25
Resistor Array 220Ohm	\$0.25
Resistor Network	\$0.50
Returned Servo Motor from MiniProj B	-\$12.50
RF Receiver Module R5-434-5 [Recycled] * While stocks last!	\$15.00
RF Receiver Module R5-434-5 New	\$30.00

Category *Component*

Item Description	Unit Price
RF Transmitter Module T5-434-5 [Recycled] * While stocks last!	\$9.00
RF Transmitter Module T5-434-5 New	\$18.00
RFID Reader	\$49.00
RFID Reader (Recycled) * While stocks last!	\$24.50
RFID Tag	\$4.00
RFID Tag (Recycled) * While stocks last!	\$2.00
RJ11 Socket	\$1.00
Sensor Jumper Wire	\$2.30
Servo Motor - HITEC HS-322HD	\$25.00
Servo Motor - HITEC HS-322HD [Recycled] * While stocks last!	\$12.50
Shrinkable Sleeving	\$0.50
SIL Socket (32 Pin)	\$0.50
Solder (Flux-cored, 1m)	\$0.50
Solenoid Valve 24V DC, 10 bar (Camozzi A331-1C2)	\$85.00
Stepper Motor (Farnell: 586-389)	\$68.00
Stereo Plug	\$0.15
Stereo Socket	\$0.25
Strip Socket (40 Pin)	\$0.65
Switch - 2/4/8 Way DIP	\$1.20
Switch - Knob for Miniature Latch-on Push Button	\$0.25
Switch - Microswitch w/o Roller	\$1.40
Switch - Microswitch with Roller	\$1.50
Switch - Miniature PCB Mounted (Slide type)	\$0.25
Switch - Miniature Push Button (Latch-on)	\$0.30

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Switch - Miniature Push Button (Normal)	\$0.15
Switch - Miniature Toggle SPDT	\$1.80
Switch - Push Button 4050S Blue (Latch-on)	\$1.50
Switch - Push Button Normal	\$0.50
Switch - Push Button Red (Latch-on)	\$1.00
Switch - SPDT toggle	\$1.00
Switch (3 / 4 / 5 Way Selector)	\$0.75
Terminal Post - 2 Way	\$0.40
Terminal Post - 2x2 Way	\$0.70
Terminal Post - 3 Way	\$0.50
Thermistor (200/300/500/1K/2K/5K/10K/20K/30K/50K/100K/150K/470K ohm)	\$0.50
TIP120 Darlington Transistor	\$0.50
TL071 Operational Amplifier	\$0.50
TL084 JFET-Input Operational Amplifier	\$0.40
Transistor 2N2222 (NPN)	\$0.50
Transistor 2N2907 (PNP)	\$0.50
Transistor 2N3053 (NPN)	\$0.50
Transistor 2N3904 (NPN)	\$0.50
Transistor 2N3906 (PNP)	\$0.50
Transistor 2N4401 (NPN)	\$0.50
Transistor 2N4403 (PNP)	\$0.50
Transistor BC107 (NPN)	\$0.50
Transistor BC109 (NPN)	\$0.50
Transistor BC125 (NPN)	\$0.50

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Item Description	Unit Price
Transistor BC141 (NPN)	\$0.50
Transistor BC179 (PNP)	\$0.50
Transistor BC182 (NPN)	\$0.50
Transistor BC328 (PNP)	\$0.50
Transistor BC337 (NPN)	\$0.50
Transistor BC547 (NPN)	\$0.50
Transistor BC557 (PNP)	\$0.50
Transistor BD135 (NPN)	\$0.50
Transistor BD136 (PNP)	\$0.50
Transistor BD139 (NPN)	\$0.50
Transistor BD140 (PNP)	\$0.50
Transistor Socket	\$0.60
Trimmer (100/200/500/1K/2K/5K/10K/20K/50K/100K/1M/2M ohm)	\$0.50
Voltage Regulator - 7805	\$0.50
Voltage Regulator - 7809	\$0.50
Voltage Regulator - 7812	\$0.50
Voltage Regulator - 7815	\$0.50
Voltage Regulator - 7905	\$0.50
Wire (Single-core, 1m)	\$0.20

Category *Equipment*

Item Description	Unit Price
Breadboard	\$4.00
Cable - 9 Way Serial Cable	\$3.00
Cable - Clip on both end	\$1.00

Category ***Equipment***

Item Description	Unit Price
Cable - RJ11	\$1.00
Cable - USB (2m)	\$4.75
Development Board (for PIC)	\$10.00
Donutboard (3" x 2")	\$0.30
Donutboard (6" x 3")	\$0.50
LPCXpresso Development Board	\$40.00
PCB (Fabrication, 3" x 3")	\$10.00
Power Supply (Switching type, Newstar NSC40)	\$40.00
Programmer Board (GTP USB Lite - for PIC)	\$50.00
Returned Breadboard	-\$4.00
Stripboard (6" x 3")	\$0.50
Wire-wrapping Board	\$8.00