**ARDUINO COMPATIBLE PRODUCTS**

Arduino is an open-source physical computing platform based on a simple i/o board and a development environment that implements the Processing/Wiring language. Arduino can be used to develop stand-alone interactive objects or can be connected to software on your computer (e.g. Flash, Processing, MaxMSP). The open-source IDE can be downloaded for free (currently for Mac OS X, Windows, and Linux).

We carry Arduino microprocessors and related products. See our online store for full descriptions.

### UNO R3

Everything needed to support the onboard ATmega328 microcontroller; connect to a computer with a USB cable or power it with a AC-to-DC adapter or battery. It has 14 digital input/output pins (6 can be used as PWM outputs), 6 analog inputs, a 16 MHz ceramic resonator, a USB connection, a power jack, an ICSP header, and a reset button. This version of the board has a socketed / replaceable ATmega328 chip (see CAT# ARD-24). Recommended operating voltage, 7-12 Vdc.

**CAT# ARD-21** $14.00 each

### ATMEGA328 W/ ARDUINO OPTIBOOT (UNO), DIP

Pre-loaded with the Arduino Optiboot (Uno 16MHz) Bootloader, to use Arduino code in a custom embedded project without using an actual Arduino board.

**CAT# ARD-24** $5.50 ea. • 10 for $4.95 ea.

### MICRO SD CARD READER/WRITER MODULE

This Micro SD card module can be used to read and write Micro SD cards with your Arduino or favorite microcontroller. Great for adding storage space to any Arduino project. Especially useful for datalogging, saving preferences, or storing game data. Features on board level shifting IC to go from 5V to 3.3V and uses standard SPI interface. 6-pin header. Overall dimensions 24.19mm x 41.8mm x 3.52mm.

**CAT # SDR-7** $2.85 each

### LOGIC LEVEL CONVERTER, BI-DIRECTIONAL

Bi-directional logic level converter safely steps down 5V signals to 3.3V and steps up 3.3V to 5V at the same time. This level converter also works with 2.8V and 1.8V devices. 0.63 x 0.52” (16.05 x 13.33mm).

**CAT# LLC-46** $2.95 each

### ARDUINO STACKABLE HEADER KIT

Works with Arduino Main Board, Pro & Mega. They clear the USB-B connector and enable stacking of multiple shields. This kit includes four headers (2 8-pin and 2 6-pin).

**CAT# HDR-07** $1.50 each

### SPARKFUN INVENTORS KIT

The SparkFun Inventor's Kit is a great way to get started with programming and hardware interaction with the Arduino programming language. The kit includes everything you need to complete five overarching projects consisting of 16 interconnected circuits that teach everything from blinking an LED to reading sensors. The culminating project is your very own autonomous robot! No previous programming or electronics experience is required to use this kit.

**CAT# SFA-40** $99.95 each

### RFID READ AND WRITE KIT

Allows you to both read and write MiFare-type cards. Can be used for identification applications, tracking inventory, or contactless security lock. Includes one credit-card style tag and one key-fob style tag.

**CAT # ME-138** $6.95 each

### WiFi MODULE - ESP8266

Self contained WiFi module capable of either hosting an application or offloading all Wi-Fi networking functions from another application processor. Pre-programmed with an AT command set firmware. Operating voltage 3.3V.

**CAT# ESP-8266** $5.35 each

### 16 X 2 LCD W/ KEYPAD

For Arduino compatible boards for user input and menu selection in custom applications. Features a 1602 white character LCD with blue LED backlight and 4-bit Arduino LCD library. Character size: 2.95 x 4.35mm. Keypad consists of 6 keys: select, left, up, down, right and reset. Potentiometer for dimmable backlighting. LED indicator. Operates on 5Vdc. 80mm x 58mm x 13mm.

**CAT# ST-1113** $7.98 each
**4-POSITION PLUGGABLE TERMINAL STRIP & HEADER**

Riacon 4-position screw-clamp terminal block and mating friction-lock header. Terminals on 5mm centers. For 12-28 AWG wire. Rated 6A/125Vac. UL, CSA.

**CAT# TER-104** 95¢ pair
10 for 75¢ per pair • 100 for 60¢ per pair

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**24-POSITION SINGLE-ROW TERMINAL STRIP, FEED-THRU**

RDI/ Buchanan 4-series / AMP 796598-6. Single-row barrier strip. Screw terminals on 0.325" centers. 0.5" feed-through pins. 7.9" x 0.60" x 0.50" high. Rated 15A, 150V. For 14-22 AWG wire. UL, CSA.

**CAT# TER-24FT** $2.50 each
10 for $2.00 each • 100 for 1.70 each

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**EUROSTYLE TERMINAL STRIPS**

For connecting stripped wires from 8-22 AWG depending on the block size. Flexible white (natural) Nylon 66 body, 94V2 rated for 105º C. 400 Volts. All metal parts are completely recessed in the housing to prevent shorts. Each strip has 12 circuits, with a mounting hole between each circuit. Can be easily shortened with a knife or saw.

**7 AMP**
For 22-18 wire. 3.78" x 0.67" x 0.57" h. 0.32"(8mm) terminal centers. UL, CSA, VDE.

**CAT # TB-7** $2.00 each
10 for $1.80 each • 100 for $1.60 each

**20 AMP**
For 18-14 wire. 4.6" x 0.80" x 0.67" h. 0.39"(10mm) terminal centers. UL, CSA, VDE.

**CAT # TB-20** $2.25 each
10 for $2.10 each • 100 for $1.80 each

**35 AMP**
For 14-10 wire. 5.38" x 0.93" x 0.75" h. 0.46"(11.5mm) terminal centers. UL.

**CAT # TB-35** $2.70 each
10 for $2.45 each • 100 for $2.15 each

**50 AMP**
For 20-8 wire. 6.25" x 1.00" x 0.99" h. 0.53"(13.5mm) terminal centers. UL.

**CAT # TB-50** $4.00 each
10 for $3.85 each • 100 for $3.60 each

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**100 AMP BRASS BUSS BAR**

Bocatech® Inc BTMH-15B

**Specifications:**
- Rated voltage: 48 Volt DC / 300 Volt AC
- Two feed terminals 1/4-20 thread brass studs
- Ten distribution terminals 8-32 brass screws
- Solid brass on insulated base
- Dimensions: 5-3/4" (L) x 1-1/4" (W) x 1-1/16" (height at the stud)
- Two mounting holes: 5-1/4" center to center

**CAT# BR-100** $6.95 ea. • 10 for $6.50 ea.

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**SPRING-LEVER TERMINAL STRIP**

2.25" SQUARE BEZEL
Red and black spring-lever terminals in a recessed cup that fits a 50mm (1.95") diameter round cut out. 57mm (2.23") square bezel with countersunk mounting holes in each corner.

**CAT# SWT-202** 2 for $1.00 • 100 for 35¢ ea.

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**LCD CHARACTER DISPLAYS**

**Incredible Price!!!**

**24 CHARACTER X 1 LINE LCD**

Wintek® WDC2401P-1GNNA.
Module size: 4.25" x 0.79" x 0.3".
Display size: 3.5" x 0.4". Built-in driver.

**CAT# LCD-111** 2 for $1.00
100 for 25¢ each • 500 for 23¢ each
1000 for 20¢ each

**8 CHARACTER X 2 LINE LCD**

Crystalfontz® CFAH0802A-NYG-JT.
STN Positive, Yellow/Green, Reflective.
Module size: 58 x 32.0 x 8.9mm

**CAT# LCD-8002** $1.75 ea. • 10 for $1.50 ea.

**20 X 2 LCD W/ WHITE LED BACKLIGHT**

Optrex® C51505NFJ-SLW-AIN
Viewing area: 83.0 x 18.0 mm.
Overall size: 116.0 x 37.0 x 15.6mm

**CAT# LCD-165** $2.85 ea. • 10 for $2.50 ea.

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**SERIAL INTERFACE MODULE FOR 16 X 2 LCDs**

Arduino compatible controller for 16 x 2 LCD modules.
Output for LED backlight. 16-pin header solders into LCD. 42 x 19 x 8mm pc board (excluding header pins).

**CAT# LCD-SI** $3.00 each