JOYSTICK SHIELD
Turn your Arduino board into a gamepad similar to a Nintendo controller. Can communicate with other wireless interfaces. Features the Nokia 5110 LCD / nRF24L01 interface. Seven push buttons (four big, two small, joystick select button) and a two-axis thumb joystick. Operates on 3.3-5Vdc. Board dimensions 83mm x 54mm.

CAT# HC-05 $8.50 each

VOICE RECORD / PLAY MODULE
W/ SPEAKER
Based on the ISD1820 chip, this multiple-message record/playback device offers true single-chip voice recording, non-volatile storage, and playback capability for 8-20 seconds. Features on-board microphone as well as internal audio amplifier which can drive the included 8 Ohm 0.5W speaker directly. Can be manually operated or on-board pushbuttons or by microcontroller. Supply voltage 3.3-5 Vdc.

CAT# ME-63S $7.00 each

Above module without the speaker,

CAT# ME-63 $6.00 each

HC-05 BLUETOOTH MODULE
HC-05 / ZS-040 Bluetooth module. 37 x 16.5 x 4.0mm pc board with 6-pin header. Can be set for master or slave operation. Onboard 3.3V regulator. Operates on 3.3-6V. For use with Arduino.

CAT# HC-05 $8.50 each

LIGHT SENSORS

CdS PHOTOCELLS – PHOTO RESISTORS
Light dependent Cadmium sulfide (CdS) resistors. Plastic coated resistors on ceramic, 0.2-0.25” diameter. Light and dark resistances are approximate.

2MΩ Dark 1K – 60KΩ Light

CAT# PRE-24 1.25 each
10 for $1.10 each

30K Dark – 1.5K Light

CAT# PRE-25 95¢ each
10 for 85¢ each

Arduino-style Module
Approximately 100Ω light, 10KΩ+ dark resistance. 0.60” x 0.75” pc board with 3-pin output, 0.10” spacing.

CAT# SE-12 $2.40 each

INFRARED SENSORS
LINE FOLLOWING / REFLECTIVITY SENSOR
Measures the reflectivity of a surface using infrared emitter/detector pair. Built around the LM393 comparator, it requires only 3 connections, V+, 5VDC, and GND. LED indicator. Can make a robot follow a painted line or count rotations of a motor shaft. 1.64” x 0.42” x 0.40”. Three pin header, 0.1” centers. Operates on 3.3-5Vdc. 20mA @ 5Vdc.

CAT# ST-1140 $3.50 $2.75 each

IR OBSTACLE AVOIDANCE SENSOR
Uses IR beam to detect proximity of obstacles. Great for sounding an alarm or changing direction of a robot or self-propelled vehicle. Potentiometer to adjust detection distance (2-40cm). Supply voltage 5 Vdc. 45mm x 16 mm x 9mm.

CAT# ST-1081 $2.75 each

PIR SENSOR
HC-SR501 Passive InfraRed (PIR) motion sensor can be used alone or with Arduino or other microcontroller. Adjustable sensitivity and timing. 33 x 24mm pc board. 25mm overall depth.

CAT# PIR-7 $4.95 $3.25 each

INFRARED SENSOR
RE 200B passive infrared sensor. Two active elements helping compensate for differences in environmental temperature. Used in alarm systems and automatic switches that respond to human body motion. Hermetically sealed TO5 metal case with 3 leads.

CAT# PIR-200B $1.00 ea. • 10 for 90¢ ea.