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## chipKIT™ Starter Kit

**Part # 240-064-KIT**
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The chipKIT Starter Kit provides a wide range of sensors, actuators, and electronic components at a remarkably low cost, enabling the construction of an endless array of projects that can serve to inform beginners or empower experts. The kit has been designed for use with our chipKIT™ boards, 32-bit microcontroller-based platforms that are compatible with much of the existing Arduino code base, reference material, and other resources.

The kit's parts have been selected to facilitate the creation of fun, useful, and entertaining projects, while at the same time facilitating the exploration of multiple disciplines, from optics to mechanics, from electrical engineering to computer science. Projects can range from as simple as blinking LEDs, to performing tracking based on optical information, to much more!

**Note:** This kit can be bundled along with a chipKIT™ Uno32, Max32, WF32, or uC32 for a discount!

### Complete parts list:

| Qty. | Description: |
|------|--------------|
|------|--------------|

#### Integrated Circuits:

|   |  |
|---|--|
| 2 | IC TCA0372, Op Amp, dual, 1A, DIP8                   |
| 1 | IC NE555P, Timer, DIP8                               |
| 1 | IC MCP4902-E/P                                       |
| 1 | IC Darlington pair array, HV, DIP18                  |
| 1 | IC L293DNE, motor driver, Quad half-bridge, DIP16    |
| 1 | IC MCP9700-E/TO, thermal sensor, 2.3V, TO-92         |
| 1 | IC MCP6546-E/P                                       |
| 1 | IC SN74HC4851N, MUX/DEMUX, 8x1, DIP16                |
| 1 | IC 74HC7014N,112; buffer, hex schmitt trigger, DIP14 |
| 3 | IC SN74HC595N, 8 bit shift register, DIP16           |
| 1 | IC MCP23008-E/P                                      |
| 1 | IC SN74HC139N, decoder/DEMUX, DL 2-4L, DIP16         |
| 1 | IC UA78L05ACLPR, 5V regulator, 100ma, TO-92          |

#### Active Components:

|   |  |
|---|--|
| 4 | Transistor ZVN2110A, N-FET               |
| 4 | Transistor ZVP2110A, P-FET               |
| 4 | Diode 1N4001, rectifier, 50PIV, 1A DO-41 |

#### Sensors:

|   |  |
|---|--|
| 1 | Thermistor 10K ohm, %5 NTC 450mW, radial           |
| 1 | Sensor Piezo sensor, 1.4 V/g, SPST, solder lug     |
| 2 | Sensor 5K-20K ohm photocell, 4.20mm                |
| 1 | Photo Transistor QSC114, IR Photo Trans, T1, 880nm |

#### Opto-Electronics:

|   |  |
|---|--|
| 1 | Display LED, 7-segment, 4 digit, CA, 0.56, hi-bright |
|---|--|

| Qty. | Description: |
|------|--------------|
|------|--------------|

#### Electro-Mechanical:

|   |  |
|---|--|
| 1 | Speaker Buzzer, 3.1KHz, 4-6V, Ext Drv, PCB Mount |
| 1 | Mechanical 1/102 DC motor                        |
| 1 | Mechanical TPRO Servo SG92R                      |
| 1 | Mechanical Stepper motor, 5V                     |
| 4 | Switch TSA12111, 12mm SPST button                |
| 4 | Switch SPST, momentary push button, PC mount     |
| 4 | Switch SPDT, slide, PC mount                     |
| 4 | Potentiometer 10K ohm w/thumbwheel               |
| 1 | Relay JZC-11F-5VDC-1Z Relay                      |

#### Passive Components:

|    |   |
|----|---|
| 1  | Inductor TK4460-ND, FIXED 1000UH TYPE 8RHB                |
| 10 | Capacitor 0.01uF, ceramic disc, radial                    |
| 10 | Capacitor 0.1uF, ceramic disc, radial                     |
| 5  | Capacitor 10uF, electrolytic, 50V, radial                 |
| 25 | Resistor 10K ohm, carbon film, 1/4W, 5%                   |
| 25 | Resistor 220 ohm, resistor, axial, 1/4W, 5%               |
| 2  | Resistor FSR 402 round force sensing resistor, circ w/tab |
| 3  | Resistor 1.0M ohm, carbon film, 1/4W, 5%                  |
| 3  | Resistor 10 Mohm Resistor, axial, 1/4W, 5%                |

#### Accessories:

|   |   |
|---|---|
| 1 | Wire Kit 70 piece, 22AWG Round Tips                       |
| 2 | Cable, 22AWG, 1x6 pin Red-Black-Yellow-Blue-Green-Brown   |
| 1 | Kit 6 Pin Male header, 5 Pack                             |
| 1 | Battery Holder 4xAA Battery Holder, Wire Leads, 2 Pin MTE |
| 1 | Solderless Breadboard 1030 Tie-Point                      |



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