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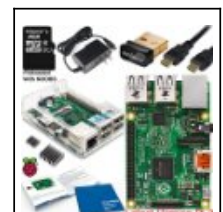
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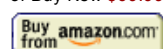
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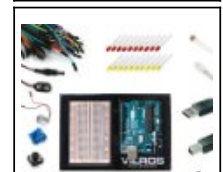
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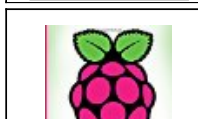
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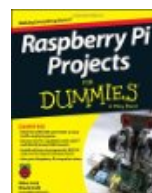


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20. **BeagleBone Black Devkit** (by Beagleboard, \$55).

SENSORS, TRANSDUCERS, ACTUATORS, ACCESSORIES

Note: most of the sensors are on breakout boards compatible with, or adaptable to, any tinkering hardware. Even when specified *for Raspberry Pi* or *for Arduino*, they can not be used across the whole range.

1. **Arduino compatible 37 sensor modules kit** (by Shanhai, \$26).
2. **Accelerometer + Gyroscope**, 3 axis (by Kootek, \$6).
3. **ADC**, 4x 16bit/0.860 KSPS (by Adafruit, \$15).
4. **ADC/DAC Expansion shield** for Raspberry Pi.
ADCs: 8x 24 bit/30 KSPS; **DACs**: 2x 16bit/30MHz (by WaveShare, \$37).
5. **Bluetooth Wireless Transceiver** for Arduino, Raspberry Pi, ... (by Kedsum, \$10).
6. **Bluetooth Wireless Transceiver** for Arduino, Raspberry Pi, ... (by InnoGear, \$9).
7. **Bluetooth USB Adapter**, for Raspberry Pi, and more (by JBTek, \$9).
8. **Camera Module** for Arduino (by Yosoo, \$10).
9. **Camera Board Module** Raspberry Pi 5 MP (by Raspberry Pi, \$27).
10. **Camera: Smart Vision - Object Tracking**
for Arduino, Raspberry Pi, BeagleBone Black (by Charmed Labs and CMU, \$69). *See also*
11. **Distance sensor**, ultrasonic, 2pc, for Arduino (by SunFounder, \$9).
12. **Distance sensor**, ultrasonic, 2pc, for Arduino (by DIYmall, \$5).
13. **Ethernet Shield SODIAL** for Arduino Uno (by Toogoo, \$7).
14. **Expansion Board** for Raspberry Pi, Arduino, XBee. **ADCs**: 11x 10bit/38 KSPS (by WaveShare, \$28).
15. **Expansion Board** for Raspberry Pi. Data logging and control of slow devices (by SBE Solar Tech, \$49).
16. **GPS Breakout Board** for Raspberry Pi, Arduino, ... (by Adafruit, \$42).
17. **GPS Antenna** with active aerial connector cable (by Neewer, \$10).
18. **Jumper wires for breadboards and connectors**, 120 pc, 3 types (by Kalevel, \$10).
19. **Jumper wires for breadboards**, 100 pc to 500 pc (Wosang, 100 pc \$5).
20. **Jumper wires for breadboards**, 140 pc (by Cixi Wanjie Electronic, \$7).
21. **Keyboard, mini, wireless, remote, touchpad**, for Raspberry Pi etc (by iPazzPort, \$15).
22. **Kit: 37 sensors for Arduino, with extension prototyping board** (by SunFounder, \$78).
23. **Kit: 37 sensors for Raspberry Pi, with extension prototyping board** (by SunFounder, \$79).
24. **LED 8 colors, 5mm**, 80 pieces (by Microtivity, \$4).
25. **Light sensor**, photoresistive, Arduino compatible (by Phantom YoYo, \$8).
26. **Light sensor**, photoresistive, Arduino compatible (by Phantom YoYo, \$7).
27. **Light sensor**, photoresistive, Arduino compatible (by RioRand, \$8).
28. **Light sensor**, photodiode, calibrated, Arduino compatible (by Sunkee, \$10).
29. **Magnetic field sensor**, magnetoresistive compass, 3 axis, max 800 uT (by JBTek, \$6).
30. **Magnetic field switches**, A3144 Hall effect, 3 pins, unipolar (by Amico, 10pcs for \$6).
31. **Memory Cards 16/32/64/128 GB, Micro SDHC, 48 MB/s** (by SanDisk, \$9/28/28/76).
32. **Memory Cards 8/16/32/64/128/200 GB, Micro SDXC (ultra), 48 MB/s** (by SanDisk, \$8/8/12/22/50/109).
33. **Motion sensor** for Arduino or Raspberry Pi (by Adafruit, \$14).
34. **Pressure / Force sensor**, resistive (by Zhangminivi, \$24).
35. **Relays**, 1-channel 5V/20mA drivers, AC250V/10A or DC30V/10A output universal (by Tolako, \$4).
36. **Relays**, 2-channels 5V/20mA drivers, AC250V/10A or DC30V/10A outputs universal (by Kootek, \$6).
37. **Relays**, 4-channels 5V/20mA drivers, AC250V/10A or DC30V/10A outputs universal (by SainSmart, \$8).
38. **Relays**, 8-channels 5V/20mA drivers, AC250V/10A or DC30V/10A outputs universal (by JBTek, \$9).
39. **Relays**, 16-channels 5V/20mA drivers, AC250V/10A or DC30V/10A outputs universal (by SainSmart, \$13).
40. **Soil moisture sensor**, high sensitivity, Arduino compatible (by Phantom YoYo, \$8).
41. **Soil moisture sensor**, Arduino compatible (by Arrela, \$6).
42. **Soil moisture sensor**, Arduino compatible (by Sunkee, \$5).
43. **Soil temperature/humidity sensor** (by Adafruit, \$55).
44. **Speech synthesis module**, Arduino XBee compatible (by Zhangminivi, \$30).
45. **Sound sensor**, mini, Arduino compatible (by Phantom YoYo, \$8).
46. **Temperature & humidity sensor**, Arduino compatible (by Phantom YoYo, \$8).
47. **Temperature & humidity sensor**, 4pc GHT11, Arduino compatible (by Geetech, \$8).
48. **Temperature & humidity sensor**, 4pc GHT11, Arduino compatible (by Vktech, \$5).
49. **Touch screen**, 2.8 inch LCD, with SD card socket, for Arduino (by Arduino, \$13).
50. **Tracking sensor**, Arduino compatible (by Phantom YoYo, \$7).
51. **Vibration sensor**, piezo (by Zhangminivi, \$14).
52. **Vibration switch** for Arduino, Raspberry Pi, ... (by MCP Technology Systems, \$8).
53. **Weather station** WheaterPiArduino, for Arduino, Raspberry Pi, ... (by SwitchDoc Labs, \$25).
54. **Weather: barometric pressure+temperature+altitude sensor** for Arduino, Raspberry Pi,... (by Adafruit, \$12).
55. **Wi-Fi USB Adapter**, universal, and ideal for Raspberry Pi ... (by Edimax, \$9).
56. **Wireless Transceiver** for Arduino, Raspberry Pi, ... (by Addicore, \$7).

ADVANCED TINKERING

1. [Parallella-16 Desktop Computer](#) (by Adapteva, \$99).
2. [Parallella-16 Micro-Server](#) (by Adapteva, \$75).
3. [Radxa Rock Pro](#), quad-core 1.6GHz, 2G RAM, 8G FLASH, open source, single-board computer (by Radxa, \$119).
4. [Cubieboard3 allwinner A20](#), dual-core ARM Cortex-A7 2G DDR, 8G FLASH, open hardware, single-board computer mini PC, supports Linux, Android, full kit (by Cubieboard, \$110).

FPGA boards and accessories for still another kind of advanced TINKERING

1. [Xilinx Spartan 3A FPGA Development Board Elbert V2](#) (by Numato Lab, \$35).
2. [Xilinx Spartan 3E FPGA Starter board](#), very complete (by Digilent, \$295).
3. [Xilinx Spartan 3E FPGA 100K Development Kit](#), low cost Basys2 (by Digilent, \$89).
4. [Altera Cyclone II Fpga Starter Development Kit](#), very complete (by Altera, \$300).
5. [Altera Cyclone II Fpga Starter Development Kit](#) (by Altera, \$104).
6. [Altera Cyclone II Fpga Mini Development Kit](#), low cost (by RioRand, \$24).
7. [Altera Cyclone III Fpga Development Board](#) (by Clarity, \$140).
8. [Altera Cyclone IV Fpga Development Learning Board](#) (clone, \$60).
9. [USB Blaster](#) USB - JTAG cable for all Altera products (by RioRand, \$14).

LINKS

1. [Arduino home page](#)
2. [Arduino on Wikipedia](#)
3. [Arduino hardware on Amazon](#). Buy boards, shields, sensors, actuators, accessories, ...
4. [Raspberry Pi home page](#)
5. [Raspberry Pi on Wikipedia](#)
6. [Raspberry Pi hardware on Amazon](#). Buy boards, sensors, actuators, accessories, ...
7. [BeagleBoard home page](#)
8. [BeagleBoard on Wikipedia](#)
9. [BeagleBoard hardware on Amazon](#). Buy boards, sensors, actuators, accessories, ...
10. [Intel Galileo Gen 2 home page](#)
11. [Intel Galileo on Arduino-Certified](#)
12. [Intel Galileo on Wikipedia](#)
13. [Intel Edison home page](#)
14. [Intel Edison on Wikipedia](#)
15. [Intel Edison on Arduino-Certified](#). Buy boards, actuators, accessories, ...
16. [Intel hardware on Amazon](#)
17. [AVR-Firmware Random Numbers Generation](#)

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