

SparkFun's Qwiic® Ecosystem



The SparkFun Qwiic® Connect System is an ecosystem of I2C sensors, development boards, shields and cables that make getting started and prototyping faster and less prone to error. All Qwiic®-enabled boards use a common 1mm pitch, 4-pin JST connector. This minimizes the amount of required PCB space and the polarized connection means you can't plug it in the wrong way.



Development Boards

There are a multitude of different development platforms in today's maker community. We are continually releasing new options, all of them equipped with a Qwiic® connector to hook it up to the rest of your system.

RedBoard Edge	14525
Thing Plus — ESP32 WROOM	14689
Thing Plus — SAMD51	14713
RedBoard Turbo — SAMD21 Development Board	14812
Pro RF — LoRa, 915MHz (SAMD21)	14916
LoRa Gateway — 1-Channel (ESP32)	15006
Pro nRF52840 Mini — Bluetooth Development Board	15025
RedBoard Qwiic®	15123
Edge Development Board — Apollo3 Blue	15170
RedBoard Artemis	15444
RedBoard Artemis Nano	15443
RedBoard Artemis ATP	15442
Thing Plus — Artemis	15574
Thing Plus — XBee3 Micro (U.FL)	15435
Thing Plus — XBee3 Micro (Chip Antenna)	15454
Qwiic Micro — SAMD21 Development Board	15423
RED-V RedBoard - SiFive RISC-V FE310 SoC	15594
RED-V Thing Plus - SiFive RISC-V FE310 SoC	15799

Accessory

Qwiic® Accessory Boards include screens, interfacers, loggers and anything else that is required to act as a go-between from a development board to a sensor. With Qwiic® Accessory Boards you can control a sensor, see its readings, or connect it to a larger project.

Micro OLED Breakout	14532
Real Time Clock Module — RV—1805	14558
Differential I2C Breakout — PCA9615	14589
Qwiic® Mux Breakout — 8 Channel (TCA9548A)	14685
Qwiic® EEPROM — 512Kbit	14764
Transparent OLED HUD Breakout	15079
Qwiic® Twist — RGB Rotary Encoder Breakout	15083
Qwiic® Single Relay	15093
Qwiic® Quad Relay	15102
Qwiic® OpenLog	15164
Qwiic® MP3 Trigger	15165
Qwiic® Joystick	15168
Transparent Graphical OLED Breakout	15173
Qwiic® Keypad — 12 Button	15290
Qwiic® 12 Bit ADC — 4 Channel (ADS1015)	15334
Qwiic® Motor Driver	15451
Qwiic® Crypto Co-Processor Breakout - ATECC508A	15573

Sensors

Sensors are the bedrock of the SparkFun Qwiic® Connect System since they are typically one of the more difficult elements to incorporate into a project. With Qwiic®, users can attach a cable and communicate via I2C with just a click.

Spectral Sensor Breakout — AS7262 Visible	14347
Environmental Combo Breakout — CCS811/BME280	14348
Human Presence Sensor Breakout — AK9753	14349
Spectral Sensor Breakout — AS7263 NIR	14351
GPS Breakout — XA1110	14414
Distance Sensor Breakout — RFD77402	14539
Triple Axis Magnetometer Breakout — MLX90393	14571
Triple Axis Accelerometer Breakout — MMA8452Q	14587
Grid-EYE Infrared Array Breakout — AMG8833	14607
Qwiic® Flex Glove Controller	14666
VR IMU Breakout — BNO080	14686
Distance Sensor Breakout — 4 Meter, VL53L1X	14722
TFMini — Micro LiDAR Module	14786
IR Array Breakout — 55 Degree FOV, MLX90640	14844
GPS-RTK Board — NEO-M8P-2	15005
UV Light Sensor Breakout — VEML6075	15089
GPS-RTK2 Board — ZED-F9P	15136
Proximity Sensor Breakout — 20cm, VCNL4040	15177
RFID Qwiic® Reader	15191
GPS Breakout — ZOE-M8Q	15193
GPS Breakout — Chip Antenna, SAM-M8Q	15210
Qwiic® Scale — NAU7802	15242
9DoF IMU Breakout — ICM-20948	15335
Capacitive Touch Slider — CAP1203	15344
Ambient Light Sensor — VEML6030	15436
9DoF IMU Breakout — ICM-20948	15335
Atmospheric Sensor Breakout — BME208	15440
Pulse Oximeter & Heart Rate Sensor — MAX30101 & MAX32664	15219
High Precision Temperature Sensor — TMP117	15805
GPS Breakout — NEO-M9N, U.FL	15712
GPS Breakout — NEO-M9N, Chip Antenna	15733

Contact Sparkfun

More Qwiic information:
<https://www.sparkfun.com/qwiic>

Qwiic Forum:
<https://bit.ly/2ILysU4>

Phone:
303-284-0979

Support:
support@sparkfun.com

Visit us!
6333 Dry Creek Parkway Niwot, CO 80503

Cables and Connectors

To connect all Qwiic®-enabled boards together you'll need a simple Qwiic® cable that incorporates the 4-pin JST connector with a 1mm pitch. We provide multiple cable options of various lengths, ranging from 50mm to 500mm, as well as Qwiic® to Qwiic® and Qwiic® to Jumper Pin connectors options, and even a full kit of connectors in case you want to try different options.

Qwiic® JST Connector — SMD 4-pin	14417
Qwiic® Cable — Breadboard Jumper (4-pin)	14425
Qwiic® Cable — 50mm	14426
Qwiic® Cable — 100mm	14427
Qwiic® Cable — 200mm	14428
Qwiic® Cable — 500mm	14429
Qwiic® Adapter	14495
Qwiic® Cable — Female Jumper (4-pin)	14988
Qwiic® Cable Kit	15081
Qwiic® Cable — Grove Adapter (100mm)	15109

HATs & Shields

When you already have a development board you want to use - whether Raspberry Pi, Arduino or Particle - there are several HAT and Shield options that can easily snap onto your existing board, making it a breeze to incorporate Qwiic®.

Qwiic® Shield for Arduino	14352
Qwiic® HAT for Raspberry Pi	14459
Qwiic® Shield for Photon	14477
LTE CAT M1/NB-IoT Shield — SARA-R4	14997
Qwiic® Expansion Board for Onion Omega	15080
Servo pHAT for Raspberry Pi	15316
Qwiic® pHAT for Raspberry Pi	15351
Qwiic® SHIM for Raspberry Pi	15794

Kits

Qwiic® Kits are the easiest way to get started with the ecosystem by providing everything you need to get started. Adding Qwiic® to Raspberry Pi, Arduino and other development platforms has never been easier.

Qwiic® Pro Kit	15349
Qwiic® Starter Kit for Onion Omega	15125
RFID Qwiic® Kit	15209
Inventor's Kit — v4.1 with Qwiic®	15263
Basic Autonomous Kit for Sphero RVR	15302
Advanced Autonomous Kit for Sphero RVR	15303
Qwiic® Kit for Raspberry Pi	15367