**DIGI** 40 YEARS

Solutions    Technologies    Products    Resources    Support    Company

**Digi XBee**    Cellular Modems    RF Modules    Gateways    Development Kits    Software and Tools    Find an XBee
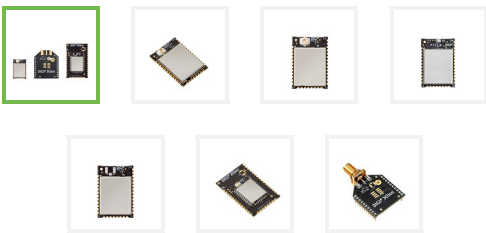
# Digi XBee 3 802.15.4 RF Module

## Low-cost, easy-to-deploy modules for critical end-point device and sensor connectivity

- At 13 mm x 19 mm, the new Digi XBee® 3 micro form factor allows for more compact and portable applications
- Digi XBee 3 is one module for all protocols including: Zigbee, 802.15.4, DigiMesh®, and BLE, all configurable via Digi XCTU®
- Eliminate the need for an external microcontroller and create smart end nodes using MicroPython
- Bluetooth® Low Energy for beaconing, connecting to Bluetooth sensors and local configuration using the Digi XBee Mobile app
- Intrinsic IoT security with Digi TrustFence®, a layered approach securing the edge device, through the gateway, into and out of the IoT

Digi XBee 3 Family

How to Buy     Support

Overview     Part Numbers     **Specifications**     Related     Support

| Specifications | Digi XBee® 3 802.15.4 | Digi XBee® 3 PRO 802.15.4 |
|---|---|---|
| **PERFORMANCE** | | |
| TRANSCEIVER CHIPSET | Silicon Labs EFR32MG SoC | |
| DATA RATE | RF 250 Kbps, Serial up to 1 Mbps | |
| INDOOR/URBAN RANGE* | Up to 60 m (200 ft) | Up to 90 m (300 ft) |

| Specifications | Digi XBee® 3 802.15.4 | Digi XBee® 3 PRO 802.15.4 |
|---|---|---|
| OUTDOOR/RF LINE-OF-SIGHT RANGE* | Up to 1200 m (4000 ft) | Up to 3200 m (2 miles) |
| TRANSMIT POWER | +8 dBm | +19 dBm |
| RECEIVER SENSITIVITY (1% PER) | -103 dBm Normal Mode | |
| **BLUETOOTH® PERFORMANCE** | | |
| TRANSCEIVER CHIPSET | Silicon Labs EFR32MG SoC | |
| BLE VERSION | Supports BLE 4.2 and capable of interoperating with BLE 5.0 devices that support 1M PHY. Hardware is software upgradable to 5.0, but not yet enabled except payload extensions (future release). | |
| MAXIMUM DATA RANGE | 1 Mbps | |
| INDOOR/URBAN RANGE* | Up to 15 m (49 ft) | |
| OUTDOOR/RF LINE-OF-SIGHT RANGE* | Up to 300 m (984 ft) | |
| TRANSMIT POWER | +8 dBm | |
| RECEIVER SENSITIVITY (1% PER) | -95 dBm normal mode | |
| **FEATURES** | | |
| SERIAL DATA INTERFACE | UART, SPI, I2C | |
| CONFIGURATION METHOD | API or AT commands, local or over-the-air (OTA) | |
| FREQUENCY BAND | ISM 2.4 GHz | |
| FORM FACTOR | Micro, through-hole, surface mount | |
| INTERFERENCE IMMUNITY | DSSS (Direct Sequence Spread Spectrum) | |
| ADC INPUTS | (4) 10-bit ADC inputs | |
| DIGITAL I/O/td> | 15 | |