Digi XBee3® modules accelerate time to market for designers, OEMs and solution providers by quickly enabling wireless connectivity and easy-to-add functionality. Building on industry-leading technology, pre-certified Digi XBee3 modules offer the flexibility to switch between multiple frequencies and wireless protocols as needed.

Digi XBee3 modules are the latest addition to the expanding Digi XBee Ecosystem of wireless modules, gateways, software and development tools – all engineered to accelerate development and deployment. Ideal for low-data (typically <5 MB per month and where latency is not critical), low-power, low-cost applications, Digi XBee3 Cellular LTE-M/NB-IoT modules feature a power saving mode which extends sleep time and battery life.

With Digi Remote Manager®, Digi XBee3 modules can be easily configured and controlled from a simple, central platform. Built-in Digi TrustFence® security, identity and data privacy features use more than 175 controls to protect against new and evolving cyber threats. Standard Digi XBee API frames and AT commands, MicroPython and XCTU software tools simplify adding functionality, set-up, configuration and testing.
## Digi XBee3 Cellular Smart Modem, LTE-M/NB-IoT

### HARDWARE
- **CELLULAR CHIPSET**: u-blox SARA-R410M-02B
- **FORM FACTOR**: Digi XBee 20-pin through-hole
- **ANTENNA OPTIONS**: 1 U.FL (Cellular), 1 U.FL (Bluetooth)
- **DIMENSIONS**: 24.38 mm x 32.94 mm
- **OPERATING TEMPERATURE**: -40°C to +85°C
- **SIM SIZE**: 4FF Nano

### INTERFACE AND I/O
- **DATA INTERFACE**: UART, SPI, USB
- **OPERATING MODES (LTE-M)**: Transparent and API over serial, PPP over USB
- **OPERATING MODES (NB-IOT)**: Transparent, API, UDP
- **SECURITY**: Digi TrustFence® security with Secure Boot and Protected JTAG
- **CONFIGURATION TOOLS**: Digi XCTU (Local), Digi Remote Manager (OTA)
- **EMBEDDED PROGRAMMABILITY**: MicroPython with 32 KB Flash / 32 KB RAM
- **I/O**: 4 ADC lines (10-bit), 13 Digital I/O, USB, i2C

### BLUETOOTH
- **Bluetooth Low Energy Ready**

### CELLULAR CHARACTERISTICS
- **TRANSMIT POWER**: Up to 23 dBm
- **RECEIVE SENSITIVITY (LTE-M)**: -105 dBm
- **RECEIVE SENSITIVITY (NB-IOT)**: -113 dBm
- **CARRIER APPROVALS**: AT&T End Device Certified (LTE-M), Verizon End Device Certified (LTE-M), Bell End Device Certification (Pending), Telus End Device Certification (Pending), Compatible with other carriers offering LTE-M and NB-IoT services (see supported bands below)
- **SUPPORTED BANDS**: Bands 1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26, 28 and 39
- **DOWNLINK/UPLINK SPEEDS (LTE-M)**: Up to 375 kb/s
- **DOWNLINK/UPLINK SPEEDS (NB-IOT)**: Up to 27.2 kb/s Downlink, 62.5kb/s Uplink
- **DUPLEX MODE**: Half-Duplex

### POWER REQUIREMENTS (AT 3.3VDC INPUT POWER)
- **SUPPLY VOLTAGE**: 3.3-4.3VDC
- **PEAK TRANSMIT CURRENT**: 550mA w/ Bluetooth disabled; 610mA w/ Bluetooth enabled
- **AVG TRANSMIT CURRENT (LTE-M)**: 235mA
- **AVG TRANSMIT CURRENT (NB-IOT)**: 190mA
- **POWER SAVE MODE**: 20uA
- **DEEP SLEEP**: 10uA

### REGULATORY APPROVALS
- **FCC (USA)**: MCQ-XB3M1
- **IC (CANADA)**: 1846A-XB3M1
- **CE / RED (EUROPE)**: Complete

### WARRANTY
- **PRODUCT WARRANTY**: 1 year
<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>XB3-C-A2-UT-001</td>
<td>Digi XBee3 Cellular Smart Modem, LTE-M/NB-IoT</td>
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<tr>
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<td>Digi XBee3 Cellular Smart Modem, LTE-M/NB-IoT, Development Kit</td>
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