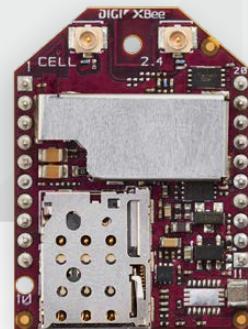




LTE-M CELLULAR  
SMART MODEM



# DIGI XBEE<sup>3</sup> CELLULAR LTE-M

Compact, flexible cellular connectivity for IoT devices and gateways.

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, adapters and software – 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 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.

## BENEFITS

- FCC certified and carrier end-device certified
- Integrated MicroPython Programmability
- 180 days of free cellular service with development kits
- Excellent coverage and building penetration
- Low power consumption optimized for long battery life
- Direct USB provides easy PPP integration option
- Enhanced with Digi TrustFence® security framework
- Manage and configure with XCTU and Digi Remote Manager®
- Digi XBee Transparent and API modes simplify design
- Reduced hardware complexity with only 1 antenna required

## RELATED PRODUCTS



Development  
Kits



ConnectCore®  
6UL SBC Pro



XCTU



Digi Remote  
Manager®



Digi Design  
Services

## APPLICATION EXAMPLE



END USER



CLOUD-BASED  
APPLICATION

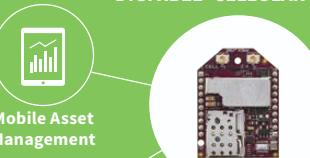


CELL TOWER



LTE-M

DIGI XBEE<sup>3</sup> CELLULAR LTE-M



Mobile Asset  
Management

Precision  
Agriculture



Smart City  
Applications



Smart Building  
Systems

Oil/Gas Sensors

Digital Signage

## SPECIFICATIONS

## Digi XBee3™ Cellular Smart Modem, LTE-M

| 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                            | Transparent and API over serial, PPP over USB or Serial  |
| 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 LE Ready   |
| CELLULAR CHARACTERISTICS                   |  |
| TRANSMIT POWER                             | Up to 23 dBm   |
| RECEIVE SENSITIVITY                        | -105 dBm   |
| CARRIER APPROVALS                          | AT&T End Device Certified<br>Verizon End Device Certification<br>Bell End Device Certification (Pending)<br>Telus End Device Certification (Pending)<br>Compatible with other LTE-M carriers, see band support |
| SUPPORTED BANDS                            | Bands 1, 2, 3, 4, 5, 8, 12, 13, 17, 19, 20, 25, 26, 28 and 39  |
| DOWNLINK/UPLINK SPEEDS                     | Up to 375 kb/s   |
| DUPLEX MODE                                | Half-Duplex  |
| POWER REQUIREMENTS (AT 3.3VDC INPUT POWER) |  |
| SUPPLY VOLTAGE                             | Standard Version: 3.3-4.3VDC; Extended Input Range*: 2.8 to 5.5VDC   |
| PEAK TRANSMIT CURRENT                      | Standard Version: 550mA w/ Bluetooth disabled; 610mA w/ Bluetooth enabled<br>Extended Input Range: 800mA w/ Bluetooth disabled; 860mA w/ Bluetooth enabled   |
| AVG TRANSMIT CURRENT                       | 235mA  |
| POWER SAVE MODE                            | Standard Version: 20uA<br>Extended Input Range*: 60uA  |
| DEEP SLEEP                                 | 10uA   |
| REGULATORY AND CARRIER APPROVALS           |  |
| FCC (USA)                                  | MCQ-XB3M1  |
| IC (CANADA)                                | 1846A-XB3M1  |
| VERIZON END-DEVICE CERTIFIED               | Complete   |
| AT&T END-DEVICE CERTIFIED                  | Complete   |

## PART NUMBERS

## DESCRIPTION

|                 |   |
|-----------------|---|
| XB3-C-A2-UT-001 | Digi XBee3 Cellular Smart Modem, LTE M                        |
| XK3-C-A2-UT-U   | Digi XBee3 Cellular Smart Modem, LTE M, Development Kit, AT&T |

\*Contact Digi for more information

**DIGI SERVICE AND SUPPORT** / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit [www.digi.com/support](http://www.digi.com/support).

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