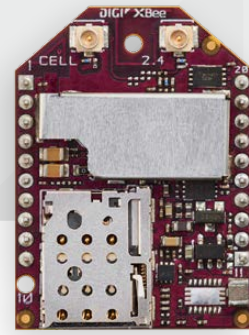




LTE-M CELLULAR
SMART MODEM



DIGI XBEE³ 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 XBEE³ CELLULAR LTE-M



Mobile Asset
Management



Smart City
Applications



Precision
Agriculture



Oil/Gas Sensors



Digital Signage



Smart Building
Systems

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 Verizon End Device Certification Bell End Device Certification (Pending) Telus End Device Certification (Pending) 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 Extended Input Range: 800mA w/ Bluetooth disabled; 860mA w/ Bluetooth enabled
AVG TRANSMIT CURRENT	235mA
POWER SAVE MODE	Standard Version: 20uA 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

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