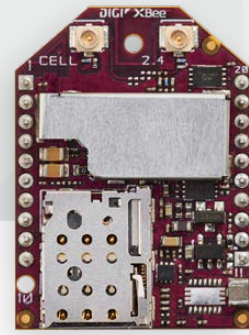




LTE-M CELLULAR  
SMART MODEM  
FOR NORTH AMERICA



# 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 <5MB 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®, 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 XBee API frames and AT commands, MicroPython and XCTU software tools simplify adding functionality, set-up, configuration and testing.

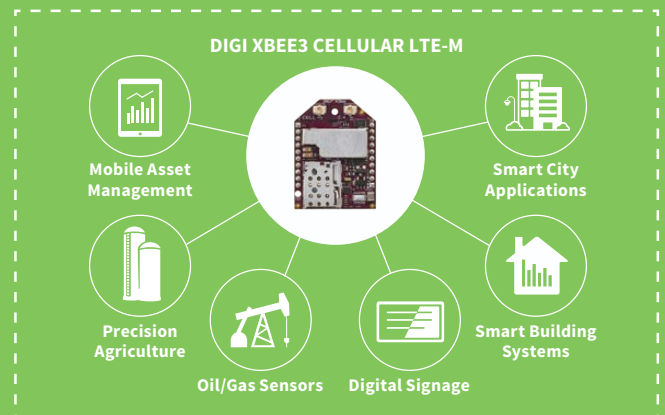
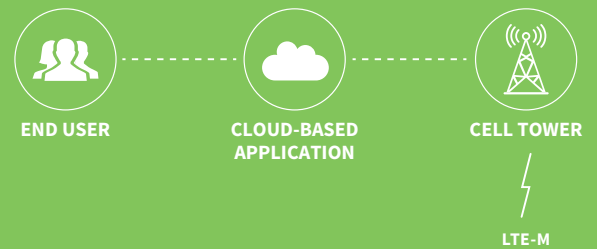
## BENEFITS

- FCC certified and carrier end-device certified
- Intergrated Micropython Programmability
- 90 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



## APPLICATION EXAMPLE



## SPECIFICATIONS

## Digi XBee3 Cellular Smart Modem, LTE-M

## HARDWARE

CELLULAR CHIPSET	u-blox SARA-R410M
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	-105dBm
CARRIER APPROVALS	AT&T End Device Certified Verizon End Device Certification (Pending) Telus End Device Certification (Pending) Compatible with other LTE-M carriers, see band support
SUPPORTED BANDS	LTE Bands 2,4,5,12; Verizon LTE Band 13 (coming soon)
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-XB3C1
IC (CANADA)	1846A-XB3C1
VERIZON END-DEVICE CERTIFIED	Pending
AT&T END-DEVICE CERTIFIED	Complete
PTCRB	Complete

## PART NUMBERS

## DESCRIPTION

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

\*Contact Digi for more information