3 MONTHS OF FREE DATA

Manage this device with Digi Remote Manager

DIGI XBEE 3 CELLULAR LTE-M DEVELOPMENT KIT

Digi XBee 3 Cellular LTE-M development kit provides OEMs with a simple, quick way to integrate cellular connectivity into their devices

The Digi XBee® 3 Cellular embedded smart modem brings together the power and flexibility of the Digi XBee Ecosystem with the latest in LTE cellular technology. OEMs can quickly integrate cutting edge LTE cellular into their devices and applications, eliminating the painful, time-consuming and expensive FCC and carrier end-device certification process.

Digi's XBee 3 Cellular development kit offers a great way to learn how to integrate cellular connectivity using Digi XBee 3 embedded modems. Starting with simple examples, we provide step-by-step guidance as you assemble the kit components to create reliable, low-power cellular communications for OEM devices like sensors and control/monitoring systems. The kit includes three months of free cellular data service, pre-activated and ready to go right out of the box, allowing developers to immediately focus on their primary goal: developing great products without the hassle of ordering and provisioning a SIM and setting up a data plan.

This kit is designed for anyone interested in getting started in the world of embedded cellular. Hardware and software engineers, corporate technologists, or educators and students can quickly learn more about cellular integration using the hands-on examples included in the kit.

With the full suite of standard Digi XBee API frames and AT commands, existing XBee customers can seamlessly transition to this embedded modem with only minor software adjustments. By adding Digi XBee 3 Cellular to your design, you can create a future-proof product with flexibility to switch between wireless protocols or pivot to Cat 1 or NB-IoT as those networks become widely deployed — making Digi XBee 3 ideal for any OEM business with an agile roadmap.

Your kit includes:

- ✓ Digi XBee 3 Cellular LTE-M/NB-IoT embedded modem
- ✓ Digi XBee 3 development board
- ✓ LTE-M SIM for AT&T*
- ✓ 3 months of free cellular service*
- ✓ Free schematic review by Digi WDS**
- ✓ Antennas and power cable

PART NUMBER	DESCRIPTION	RECOMMENDED FOR NEW DESIGNS
XK3-C-A2-T-UB	Digi XBee 3 Cellular Smart Modem, LTE-M/NB-IoT Development Kit with XBIB-C Dev Board, AT&T	Yes
XK3-C-N1-T-EB	Digi XBee 3 Cellular Smart Modem, LTE-M/NB-IoT Development Kit with XBIB-C Dev Board	Yes
XK3-C-A2-UT-U	Digi XBee 3 Cellular Smart Modem, LTE-M/NB-IoT Development Kit, AT&T	No
XK3-C-N1-UT-E	Digi XBee 3 Cellular Smart Modem, LTE-M/NB-IoT Development Kit	No

*Service will be limited to ~5 MB/month and limited SMS. For testing purposes only, not for production. XK3-C-A2-UT-U and XK3-C-A2-T-UB only.
**Level 1 review.

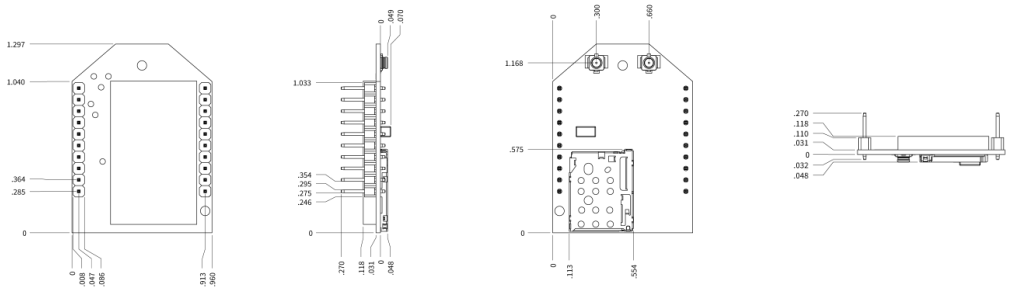
SPECIFICATIONS

Digi XBee 3 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 (0.96 in x 1.3 in)
OPERATING TEMPERATURE	-40° C to 85° C (-40° F to 185° F)
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, I^2C
BLUETOOTH	Bluetooth Low Energy Ready
CELLULAR CHARACTERISTICS	
TRANSMIT POWER	Up to 23 dBm
RECEIVE SENSITIVITY	-105 dBm
CARRIER APPROVALS	AT&T End Device Certified (LTE-M) Verizon End Device Certifided (LTE-M) T-Mobile End Device Certified (NB-IoT)* Vodafone End Device Certified (NB-IoT) Bell End Device Certified (LTE-M) Telus End Device Certified (LTE-M) 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, 17, 18, 19, 20, 25, 26, 28 and 39
DOWNLINK/UPLINK SPEEDS	Up to 375 kbps
DUPLEX MODE	Half-duplex
POWER REQUIREMENTS (AT 3.3 VDC INPUT POWER)	
SUPPLY VOLTAGE	3.3 - 4.3 VDC
PEAK TRANSMIT CURRENT	550 mA w/ Bluetooth disabled; 610 mA w/ Bluetooth enabled
AVG TRANSMIT CURRENT	235 mA
POWER SAVE MODE	20 uA
DEEP SLEEP	10 uA
REGULATORY APPROVALS	
FCC (USA)	MCQ-XB3M1
IC (CANADA)	1846A-XB3M1
CE / RED (EUROPE)	Complete
RCM (AUSTRALIA/NEW ZEALAND)	Complete

*For use on T-Mobile NB-IoT network for evaluation and development purposes. Full certification will be completed with an upcoming software revision (03B). Contact Digi sales for more information.

PRODUCT IMAGES



DIGI REMOTE MANAGER®

CAPABILITIES

- Centralized management of remote devices over 3G/4G/LTE
- Define standard configurations and automatically monitor individual devices for PCI security compliance
- Get alerts and create reports on performance statistics, including connection history, signal quality, latency, data usage and packet loss
- No servers or applications to operate and maintain
- Perform tasks across your entire device network in minutes
- Edit configurations and update firmware for individual devices or groups
- Monitor the status and location of remote devices via a web browser
- Activate or deactivate cellular lines and monitor data consumption to ensure you never incur overage charges

INFRASTRUCTURE

- Hosted in a commercial-grade SAS 70-certified environment
- Superior availability, operating to 99.9% or greater
- Open APIs available to support application development

SECURITY

- Certified SSAE-16 facilities
- Over 175 security controls in place to protect your data
- Enables compliance with security frameworks like PCI, HIPAA, NIST
- Earned SkyHigh's Cloud Trust Program highest rating of Enterprise-Ready

DIGI XBEE® TOOLS

The Digi XBee Ecosystem is fully supported with the award-winning Digi XBee Tools suite. Designed to support the full product lifecycle, from prototyping and development to deployment and ongoing monitoring, Digi XBee Tools includes code libraries, testing and prototyping tools, product development and manufacturing support, and tools for deploying and managing end devices in the field.

DEVELOP BUILD DEPLOY MANAGE