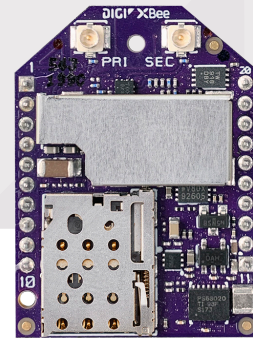




4G LTE CAT 1 CELLULAR
SMART MODEM



DIGI XBEE 3 CELLULAR LTE CAT 1

Digi XBee 3 smart modems offer the easiest way to integrate cellular connectivity into an OEM device or IoT gateway

Digi XBee® 3 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 XBee 3 modules offer the flexibility to switch between multiple frequencies and wireless protocols as needed.

Ideal for moderate bandwidth (typically < 25 MB per month) and low-cost IoT applications, Digi XBee 3 Cellular LTE Cat 1 modules are cost-competitive with modules based on older standards.

With Digi Remote Manager®, Digi XBee 3 modules can be easily configured and controlled from a central platform. Built-in Digi TrustFence® security, identity and data privacy features use multiple layers of control to protect against new and evolving cyber threats. Standard Digi XBee API frames and AT commands, MicroPython and Digi XCTU® simplify setup, configuration, testing and adding or changing functionality. Digi XBee 3 modules are the latest addition to the Digi XBee Ecosystem of wireless modules, adapters and software – all engineered to accelerate development and deployment.

BENEFITS

- Integrated MicroPython programmability enables custom scripting directly on the modem
- Transparent and API modes simplify software design
- 90 days of free cellular service with development kits
- FCC certified and carrier end-device certified for Verizon, AT&T, Telus and Bell
- Smallest end-device certified cellular modem
- Direct USB provides easy PPP integration option
- OTA firmware updates
- Enhanced with Digi TrustFence® security framework
- Manage/configure with Digi XCTU and Digi Remote Manager®
- Dual-mode radio for local configuration over Bluetooth® Low Energy using the Digi XBee Mobile app

RELATED PRODUCTS



Digi XBee 3
Cellular LTE Cat 1
Development kit



Digi
ConnectCore
6UL SBC Pro



XCTU



Digi Remote
Manager®



Digi Wireless
Design Services

APPLICATION EXAMPLE



END USER



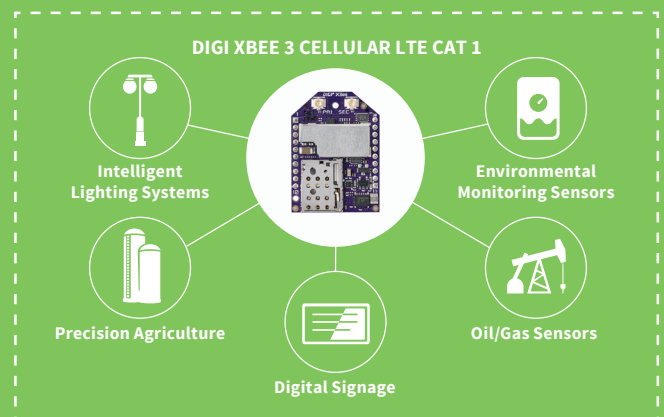
CLOUD-BASED
APPLICATION



CELL TOWER



LTE Cat 1



SPECIFICATIONS		Digi XBee 3 Cellular LTE Cat 1 Smart Modem	
HARDWARE			
CELLULAR CHIPSET		Telit LE866A1-NA (AT&T), LE866-SV1 (Verizon)	
FORM FACTOR		Digi XBee 20-pin through-hole	
ANTENNA OPTIONS		1 U.FL: Cellular Primary, 1 U.FL: Cellular Diversity Embedded Bluetooth Antenna	
DIMENSIONS		24.38 mm x 32.94 mm (0.96 in x 1.3 in)	
OPERATING TEMPERATURE		-40° C to 80° C (-40° F to 176° F)	
SIM SIZE		4FF Nano	
INTERFACE AND I/O			
DATA INTERFACE		UART, SPI, USB	
OPERATING MODES		Transparent and API over serial, PPP over USB	
SECURITY		Digi Trustfence® security with Secure Boot and Protected JTAG	
CONFIGURATION TOOLS		Digi XCTU® (Local), Digi Remote Manager (OTA)	
EMBEDDED PROGRAMMABILITY		MicroPython with 512K flash / 64K RAM	
I/O		4 ADC lines (10-bit), 13 Digital I/O, I2C	
BLUETOOTH		BLE	
CELLULAR CHARACTERISTICS			
TRANSMIT POWER		Up to 23 dBm	
RECEIVE SENSITIVITY		-102 dBm	
CARRIER APPROVALS		AT&T End-Device Certified Bell End-Device Certified Telus End-Device Certified Verizon End-Device Certified Compatible with other LTE Cat 1 carriers; see Supported Bands	
SUPPORTED BANDS		Bands 2, 4, 12 Bands 4, 13 (Verizon module)	
DOWNLINK/UPLINK SPEEDS		10 Mbit/s Downlink, 5 Mbit/s Uplink (USB) 921 Kbit/s Downlink and Uplink (UART)	
DUPLEX MODE		Full-duplex	
POWER REQUIREMENTS (AT 3.3 VDC INPUT POWER)			
SUPPLY VOLTAGE		3.0 to 5.5 V	
PEAK TRANSMIT CURRENT		1000 mA Bluetooth disabled 1060 mA Bluetooth enabled	
AVG TRANSMIT CURRENT		850 mA	
AVG RECEIVE CURRENT		320 mA	
REGULATORY AND CARRIER APPROVALS			
FCC (USA)		MCQ-XB3C1 and R17XE866A1NA, MCQ-XB3C1 and R17LE866SV1A (for Verizon module)	
IC (CANADA)		1846A-XB3C1 and 5131A-XE866A1-NA, 1846A-XB3C1 and 5131A-LE866-SV1A (for Verizon module)	
AT&T END-DEVICE CERTIFIED		Complete (XB3-C-A1-UT-001 only)	
VERIZON END-DEVICE CERTIFIED		Complete (XB3-C-V1-UT-001 only)	
TELUS END-DEVICE CERTIFIED		Complete (XB3-C-A1-UT-001 only)	
BELL END-DEVICE CERTIFIED		Complete (XB3-C-A1-UT-001 only)	
PTCRB		Complete (XB3-C-A1-UT-001 only)	
WARRANTY			
PRODUCT WARRANTY		1-year	

PART NUMBERS	DESCRIPTION
XB3-C-A1-UT-001	Digi XBee 3 Cellular Smart Modem, LTE Cat 1, North America
XK3-C-A1-UT-U	Digi XBee 3 Cellular Smart Modem, LTE Cat 1, Development Kit, AT&T
XB3-C-V1-UT-001	Digi XBee 3 Cellular Smart Modem, LTE Cat 1, Verizon
XK3-C-V1-T-UB	Digi XBee 3 Cellular Smart Modem, LTE Cat 1, Development Kit, Verizon

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