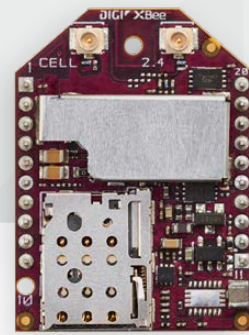




4G LTE CAT 1 CELLULAR  
SMART MODEM



# DIGI XBEE<sup>3</sup> CELLULAR LTE CAT 1

Digi XBee3<sup>®</sup> smart modems offer the easiest way to integrate cellular connectivity into an OEM device or IoT gateway.

Digi XBee3<sup>®</sup> 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.

Ideal for moderate bandwidth (typically <25 MB per month) and low-cost IoT applications, Digi XBee3 Cellular LTE CAT 1 modules are cost-competitive with legacy 2G/3G standard devices.

With Digi Remote Manager<sup>®</sup>, XBee3 modules can be easily configured and controlled from a simple, central platform. Built-in Digi TrustFence<sup>®</sup> 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. 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.

## BENEFITS

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

## RELATED PRODUCTS



Development  
Kits



ConnectCore<sup>®</sup>  
6UL SBC Pro



XCTU



Digi Remote  
Manager<sup>®</sup>



Digi Design  
Services

## APPLICATION EXAMPLE



END USER

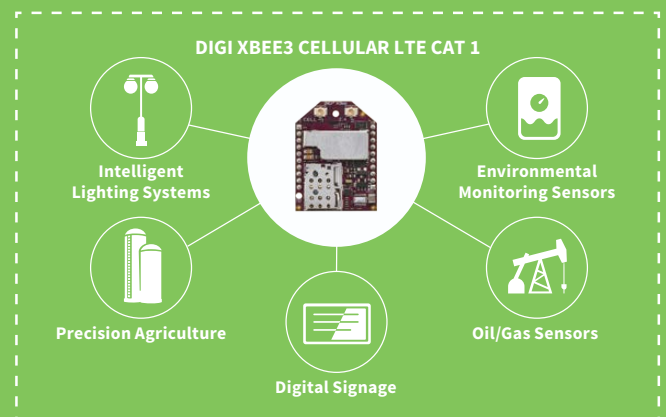


CLOUD-BASED  
APPLICATION



CELL TOWER

LTE Cat 1



| SPECIFICATIONS                             |  | Digi XBee3 Cellular Smart Modem, LTE CAT 1                                                                                           |  |
|--------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------|--|
| HARDWARE                                   |  |                                                                                                                                      |  |
| CELLULAR CHIPSET                           |  | Telit LE866A1-NA                                                                                                                     |  |
| FORM FACTOR                                |  | Digi XBee 20-pin through-hole                                                                                                        |  |
| ANTENNA OPTIONS                            |  | 1 U.FL: Cellular Primary, 1 U.FL: Cellular Diversity<br>Embedded Bluetooth Antenna                                                   |  |
| DIMENSIONS                                 |  | 24.38 mm x 32.94 mm                                                                                                                  |  |
| OPERATING TEMPERATURE                      |  | -40° C to +80° 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, I2C                                                                                            |  |
| BLUETOOTH                                  |  | Bluetooth LE Ready                                                                                                                   |  |
| CELLULAR CHARACTERISTICS                   |  |                                                                                                                                      |  |
| TRANSMIT POWER                             |  | Up to 23 dBm                                                                                                                         |  |
| RECEIVE SENSITIVITY                        |  | -102dBm                                                                                                                              |  |
| CARRIER APPROVALS                          |  | AT&T End Device Certified<br>Verizon End Device Certification (Pending)<br>Compatible with other LTE-CAT1 carriers, see band support |  |
| SUPPORTED BANDS                            |  | Bands 2, 4, 12<br>Verizon Band 4, 13 (Coming Soon)                                                                                   |  |
| DOWNLINK/UPLINK SPEEDS                     |  | 10 Mbit/s Downlink, 5 Mbit/s Uplink (USB)<br>921 Kbit/s Downlink and Uplink (UART)                                                   |  |
| DUPLEX MODE                                |  | Full-Duplex                                                                                                                          |  |
| POWER REQUIREMENTS (AT 3.3VDC INPUT POWER) |  |                                                                                                                                      |  |
| SUPPLY VOLTAGE                             |  | 3.0 to 5.5V                                                                                                                          |  |
| PEAK TRANSMIT CURRENT                      |  | 1000mA Bluetooth Disabled<br>1060mA Bluetooth Enabled                                                                                |  |
| AVG TRANSMIT CURRENT                       |  | 850mA                                                                                                                                |  |
| AVG RECEIVE CURRENT                        |  | TBD                                                                                                                                  |  |
| POWER SAVE MODE                            |  | TBD                                                                                                                                  |  |
| 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                                                                                                                             |  |
| WARRANTY                                   |  |                                                                                                                                      |  |
| PRODUCT WARRANTY                           |  | 1 year                                                                                                                               |  |

| PART NUMBERS    | DESCRIPTION                                                       |
|-----------------|-------------------------------------------------------------------|
| XB3-C-A1-UT-001 | Digi XBee3 Cellular Smart Modem, LTE CAT 1, North America         |
| XK3-C-A1-UT-U   | Digi XBee3 Cellular Smart Modem, LTE CAT 1, Development Kit, AT&T |

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