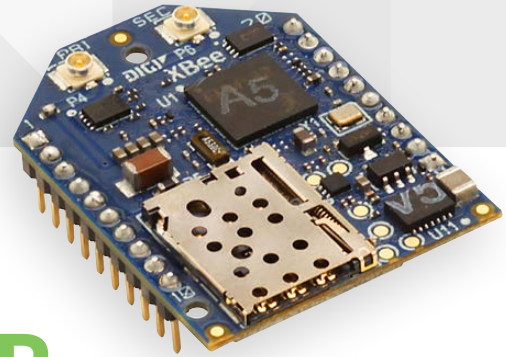




4G LTE CAT 1 CELLULAR  
EMBEDDED MODEM



# DIGI XBEE® CELLULAR

XBee Cellular LTE Cat 1 embedded modems provide OEMs with a simple way to integrate cellular connectivity into their devices

Digi is excited to bring together the power and flexibility of the XBee ecosystem with Verizon, the world's largest cellular network. This powerful combination enables OEMs to quickly integrate cutting edge 4G cellular technology into their devices and applications without dealing with the painful, time-consuming, expensive FCC and carrier end-device certifications. A bundled data plan will be available as an option, with the modem 'shipping hot', fully pre-provisioned and ready to communicate over the cellular network right out of the box.

With the full suite of standard XBee API frames and AT commands, existing XBee customers can seamlessly transition to this new modem with only minor software adjustments. When OEMs add the XBee Cellular to their design, they create a future-proof design with flexibility to switch between wireless protocols or frequencies as needed, ideal for any business with an agile roadmap.

## BENEFITS

- Industry's fastest path to embedded cellular connectivity
- Smallest end-device certified embedded cellular modem on the market
- Pre-certified, Verizon end-device certified, and (coming soon) pre-provisioned on the cellular network
- Authentic 20-pin XBee Through-Hole form factor
- Standard XBee AT and API interfaces
- 3.3 V power for battery-powered applications
- OTA firmware updates
- SSL/TLS for secure communications
- Configure locally with XCTU or remotely with Digi Remote Manager

## RELATED PRODUCTS



Development  
Kits



Accessories



XCTU

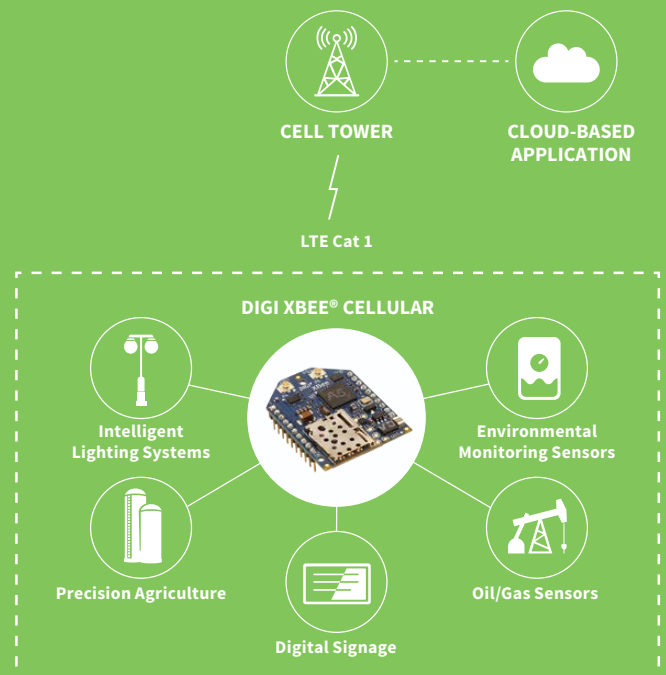


Digi Remote  
Manager®



Digi Device  
Cloud<sup>SM</sup>

## APPLICATION EXAMPLE



## SPECIFICATIONS

## Digi XBee® Cellular LTE Cat 1

### INTERFACES AND HARDWARE

|                       |   |
|-----------------------|---|
| SERIAL DATA INTERFACE | UART (SPI coming soon)                    |
| ANALOG I/O            | 4 ADC lines (coming soon)                 |
| DIGITAL I/O           | 15 DIO lines (coming soon)                |
| FORM FACTOR           | 20-pin XBee through-hole                  |
| ANTENNA OPTIONS       | 2 U.FL for primary and secondary antennas |
| DIMENSIONS            | 0.960 x 1.297 in (2.438 x 3.294 cm)       |
| CHIPSET REFERENCE     | Telit/Altair                              |
| OPERATING TEMPERATURE | -40° C to +80° C                          |

### RF CHARACTERISTICS

|                     |                      |
|---------------------|----------------------|
| MODULATION          | LTE/4G – QPSK, 16QAM |
| TRANSMIT POWER      | 23dBm                |
| RECEIVE SENSITIVITY | -102 dBm             |

### NETWORKING AND CARRIER

|                        |                      |
|------------------------|----------------------|
| CARRIER AND TECHNOLOGY | Verizon 4G LTE Cat 1 |
| SUPPORTED BANDS        | 4/13                 |
| SECURITY               | SSL/TLS              |
| DATA RATES             | 921 Kbps via UART    |

### POWER REQUIREMENTS

|                          |                                     |
|--------------------------|-------------------------------------|
| SUPPLY VOLTAGE           | 3.0 to 5.5v                         |
| TRANSMIT CURRENT         | 860 mA average, 1020 mA Peak @ 3.3V |
| RECEIVE CURRENT          | 530 mA average @ 3.3V               |
| IDLE CURRENT (LISTENING) | 143 mA @ 3.3V                       |

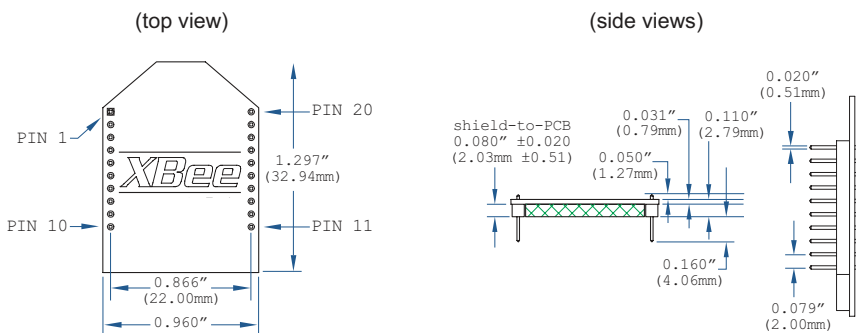
### REGULATORY AND CARRIER APPROVALS

|                    |                              |
|--------------------|------------------------------|
| FCC (USA)          | Contains: FCC: RI7LE866SV1   |
| IC (CANADA)        | Contains: IC: 5131A-LE866SV1 |
| VERIZON END-DEVICE | Coming soon                  |

## PART NUMBERS

## DESCRIPTION

|               |  |
|---------------|--|
| XBC-V1-UT-001 | Digi XBee Cellular LTE Cat 1, Verizon LTE Cat 1, Dual U.FL, TH, USA  |
| XKC-V1T-U     | Digi XBee Cellular LTE Cat 1 Development Kit, Verizon LTE Cat 1, USA |



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