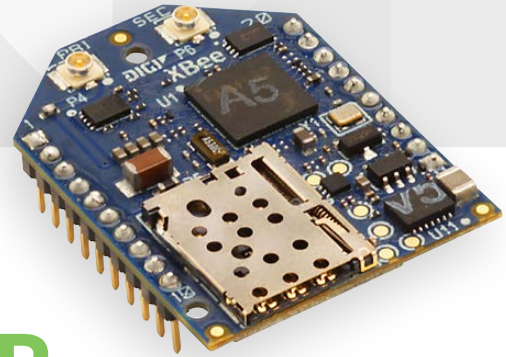




4G LTE CAT 1 CELLULAR
EMBEDDED MODEM



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 the latest 4G cellular technology, with the new Digi XBee Cellular embedded modem. This solution 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 included with every development kit with 6 months of free data, with the XBee 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
- FCC pre-certified and Verizon End-Device certified
- 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 CloudSM

APPLICATION EXAMPLE



COMPUTER



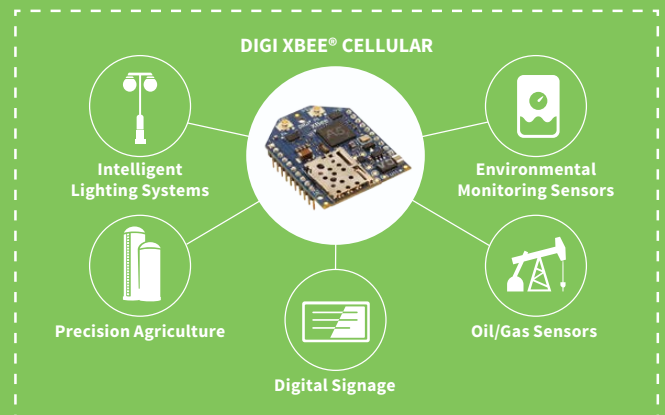
CLOUD-BASED APPLICATION



CELL TOWER



LTE Cat 1



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 (Up to 1.2)
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
DEEP SLEEP	Approximately 10µA

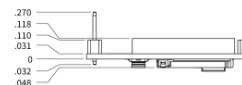
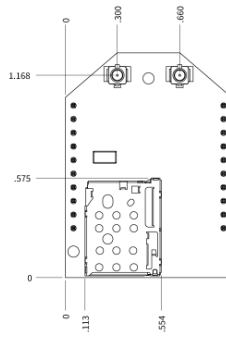
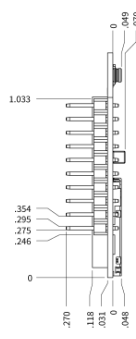
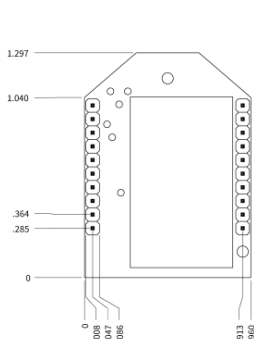
REGULATORY AND CARRIER APPROVALS

FCC (USA)	Contains: FCC: RI7LE866SV1
IC (CANADA)	Contains: IC: 5131A-LE866SV1
VERIZON END-DEVICE	Certified and ready for immediate use

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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