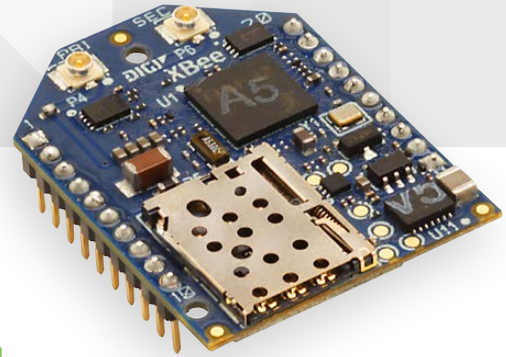




4G LTE CAT 1 CELLULAR
EMBEDDED MODEM



DIGI XBEE® CELLULAR LTE CAT 1

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 Digi XBee Cellular LTE Cat 1 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

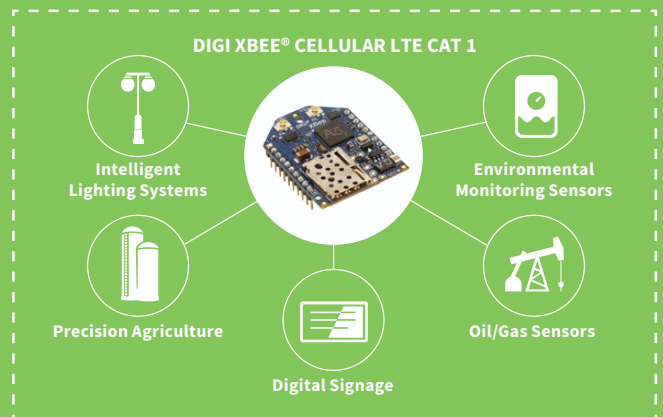
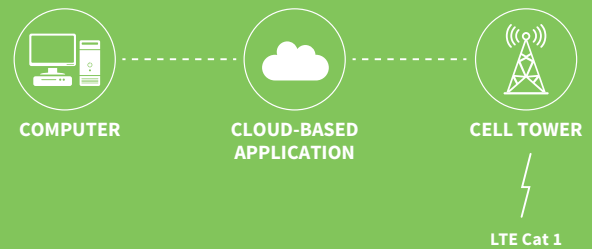
to this new modem with only minor software adjustments. When OEMs add the XBee Cellular to their design, they create a future-proof design with flexibility to switch between wireless protocols or frequencies as needed, ideal for any business with an agile roadmap.

Digi offers cellular service which is bundled with free Digi Remote Management to remotely monitor and manage devices, along with the capability to do over the air (OTA) remote firmware upgrades. For more information or to receive a quote, contact your sales representative or call Digi Sales at 952-912-3444 / 877-912-3444.

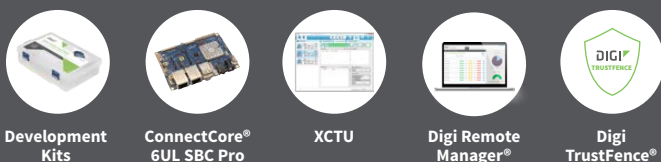
BENEFITS

- Convenient Digi data plans available for Digi XBee Cellular
- FCC certified and Carrier End-device certified for Verizon and AT&T
- Smallest end-device certified cellular modem
- XBee Transparent and API modes simplify s/w design
- Direct USB provides easy PPP integration option
- Integrated MicroPython programmability enables custom scripting directly on the modem
- OTA firmware updates
- Enhanced with Digi TrustFence® security framework
- Manage and configure with XCTU and Digi Remote Manager®

APPLICATION EXAMPLE



RELATED PRODUCTS



SPECIFICATIONS

Digi XBee® Cellular LTE Cat 1

INTERFACES AND HARDWARE

SERIAL DATA INTERFACE	UART (USB coming soon)
ANALOG I/O	4 ADC lines
DIGITAL I/O	15 DIO lines
FORM FACTOR	20-pin XBee through-hole
WIRELESS INTERFACES	Bluetooth LE Ready
PROGRAMMABLE	Built-in MicroPython support with 24KB RAM / 8KB Flash
ANTENNA OPTIONS	2 U.FL for primary and secondary antennas
DIMENSIONS	0.960 x 1.297 in (2.438 x 3.294 cm)
OPERATING MODES	Transparent, API, and Bypass mode
CHIPSET REFERENCE	Telit/Altair
OPERATING TEMPERATURE	-40° C to +80° C
SIM CARD	4FF (Nano size)

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
TRUSTFENCE™ SECURITY	Secure Boot, Encrypted Storage, Protected JTAG
THROUGHPUT	Upload up to 5Mbps / Download up to 10Mbps via USB2.0, Up to 921Kbps bidirectionally via UART
DATA PLAN OPTIONS	Digi data plans available - Contact Digi for more information

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

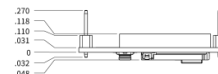
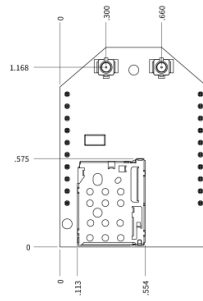
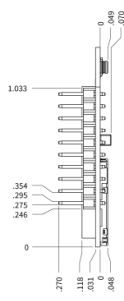
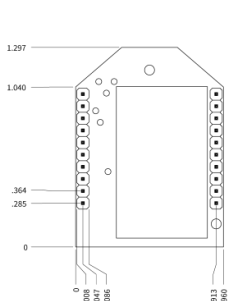
REGULATORY AND CARRIER APPROVALS

FCC (USA)	Contains: FCC: RI7LE866SV1
IC (CANADA)	Contains: IC: 5131A-LE866SV1
END DEVICE CERTIFIED	Verizon, AT&T, and PTCRB

PART NUMBERS

DESCRIPTION

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



DIGI SERVICE AND SUPPORT / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit www.digi.com/support.

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