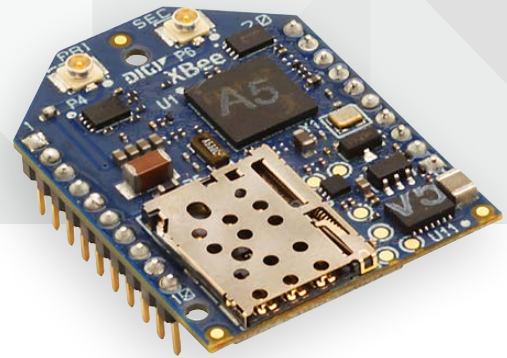




4G LTE CAT 1 CELLULAR  
EMBEDDED MODEM



# 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
- 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®

## RELATED PRODUCTS



Development Kits



ConnectCore® 6UL SBC Pro



XCTU



Digi Remote Manager®



Digi TrustFence®

## APPLICATION EXAMPLE



END USER



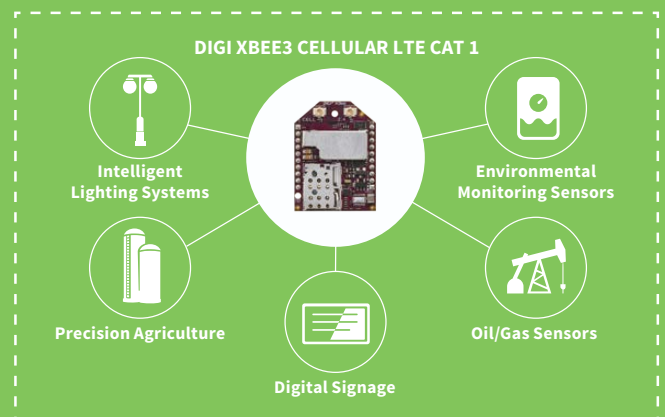
CLOUD-BASED APPLICATION



CELL TOWER



LTE Cat 1



## SPECIFICATIONS

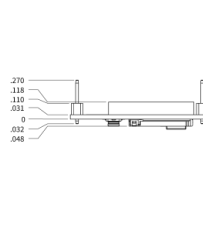
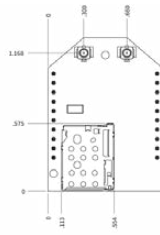
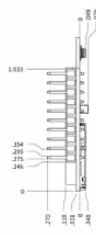
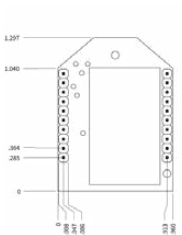
# Digi XBee® Cellular LTE Cat 1

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: R17LE866SV1
IC (CANADA)	Contains: IC: 5131A-LE866SV1
END DEVICE CERTIFIED	Verizon
WARRANTY	
PRODUCT WARRANTY	1 year

## 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



**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](http://www.digi.com/support).

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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