



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

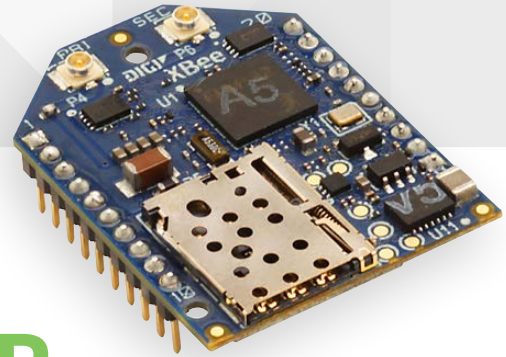
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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.

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
- 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
- Configure and send firmware updates locally with XCTU or remotely with Digi Remote Manager®
- Digi TrustFence™ security features including Secure Boot, SSL/TLS v1.2 and others

## RELATED PRODUCTS



Development Kits



Accessories



XCTU



Digi Remote Manager®



Digi TrustFence™

## APPLICATION EXAMPLE



COMPUTER



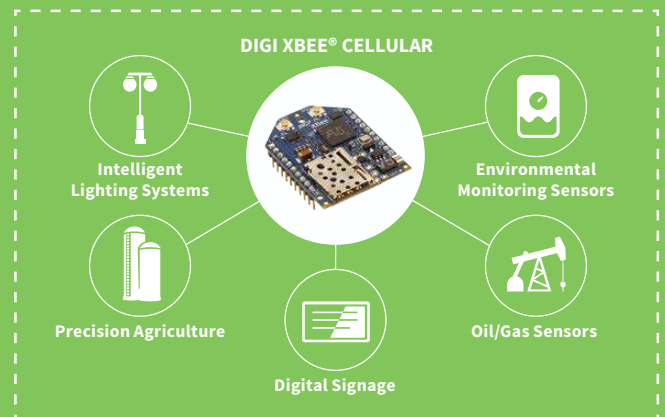
CLOUD-BASED APPLICATION



CELL TOWER



LTE Cat 1



## SPECIFICATIONS

# Digi XBee® Cellular LTE Cat 1

### INTERFACES AND HARDWARE

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

### RF CHARACTERISTICS

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

### NETWORKING AND CARRIER

<b>CARRIER AND TECHNOLOGY</b>	Verizon 4G LTE Cat 1
<b>SUPPORTED BANDS</b>	4/13
<b>TRUSTFENCE™ SECURITY</b>	Secure Boot, Encrypted Storage, Protected JTAG
<b>DATA RATES</b>	921 Kbps via UART
<b>DATA PLAN OPTIONS</b>	Digi data plans available - Contact Digi for more information

### POWER REQUIREMENTS

<b>SUPPLY VOLTAGE</b>	3.0 to 5.5v
<b>TRANSMIT CURRENT</b>	860 mA average, 1020 mA Peak @ 3.3V
<b>RECEIVE CURRENT</b>	530 mA average @ 3.3V
<b>IDLE CURRENT (LISTENING)</b>	143 mA @ 3.3V
<b>DEEP SLEEP</b>	Approximately 10µA

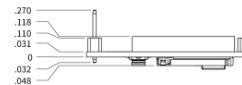
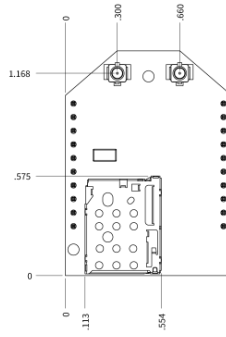
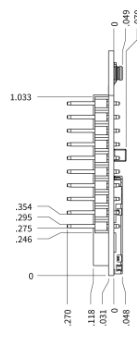
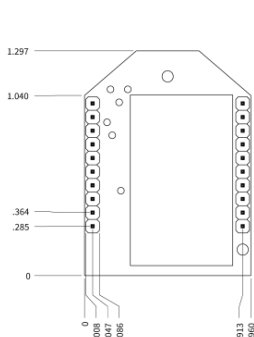
### REGULATORY AND CARRIER APPROVALS

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

## PART NUMBERS

## DESCRIPTION

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



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**DIGI INTERNATIONAL WORLDWIDE HQ**  
877-912-3444 / 952-912-3444 / [www.digi.com](http://www.digi.com)

**DIGI INTERNATIONAL FRANCE**  
+33-1-55-61-98-98 / [www.digi.fr](http://www.digi.fr)

**DIGI INTERNATIONAL JAPAN**  
+81-3-5428-0261 / [www.digi-intl.co.jp](http://www.digi-intl.co.jp)

**DIGI INTERNATIONAL SINGAPORE**  
+65-6213-5380

**DIGI INTERNATIONAL CHINA**  
+86-21-50492199 / [www.digi.com.cn](http://www.digi.com.cn)

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