4G LTE CAT 1 CELLULAR
SMART MODEM

Manage this device with
Digi Remote Manager

DIGI XBEE 3 CELLULAR LTE CAT 1

Digi XBee 3 smart modems offer the easiest way to integrate cellular connectivity into an OEM device or IoT gateway

Digi XBee® 3 modules accelerate time to market for designers, OEMs and solution providers by quickly enabling wireless connectivity and easy-to-add functionality. Building on industry-leading technology, pre-certified Digi XBee 3 modules offer the flexibility to switch between multiple frequencies and wireless protocols as needed.

Ideal for moderate bandwidth (typically < 25 MB per month) and low-cost IoT applications, Digi XBee 3 Cellular LTE Cat 1 modules are cost-competitive with modules based on older standards.

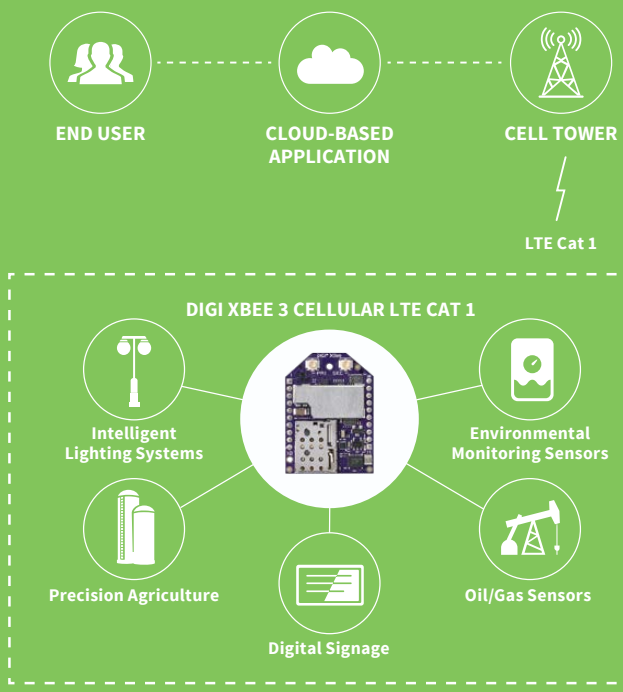
With **Digi Remote Manager®**, Digi XBee 3 modules can be easily configured and controlled from a central platform. Built-in **Digi TrustFence®** security, identity and data privacy features use multiple layers of control to protect against new and evolving cyber threats. Standard Digi XBee API frames and AT commands, MicroPython and **Digi XCTU®** simplify setup, configuration, testing and adding or changing functionality.

Digi XBee 3 modules are the latest addition to the **Digi XBee Ecosystem** of wireless modules, adapters and software – all engineered to accelerate development and deployment.

BENEFITS

- Integrated MicroPython programmability enables custom scripting directly on the modem
- Transparent and API modes simplify software design
- MQTT support for Microsoft Azure and Amazon AWS
- FCC certified and carrier end-device certified for Verizon, AT&T, Telus and Bell
- Smallest end-device certified cellular modem
- Direct USB provides easy PPP integration option
- OTA firmware updates
- Enhanced with Digi TrustFence® security framework
- Manage/configure with Digi XCTU® and Digi Remote Manager®
- Bluetooth® Low Energy for beaconing, connecting to Bluetooth sensors and local configuration using the **Digi XBee Mobile app**
- Modem includes SIM, ready to activate at **shop.digi.com**

APPLICATION EXAMPLE



RELATED PRODUCTS

Digi XBee® 3 development kit

ConnectCore® 6UL SBC Pro

Digi XCTU®

Digi Remote Manager®

Digi Wireless Design Services

SPECIFICATIONS

Digi XBee® 3 Cellular LTE Cat 1 Smart Modem

HARDWARE	
CELLULAR CHIPSET	Telit LE866A1-NA (AT&T), LE866-SV1 (Verizon)
FORM FACTOR	Digi XBee® 20-pin through-hole
ANTENNA OPTIONS	1 U.FL: Cellular Primary, 1 U.FL: Cellular Diversity Embedded Bluetooth® antenna
DIMENSIONS	24.38 mm x 32.94 mm (0.96 in x 1.3 in)
OPERATING TEMPERATURE	-40° C to 80° C (-40° F to 176° F)
SIM SIZE	4FF Nano
INTERFACE AND I/O	
DATA INTERFACE	UART, SPI, USB
OPERATING MODES	Transparent and API over serial, PPP over USB
SECURITY	Digi TrustFence® security with secure boot and protected JTAG
CONFIGURATION TOOLS	Digi XCTU® (local), Digi Remote Manager® (OTA)
EMBEDDED PROGRAMMABILITY	MicroPython with 512 kB flash / 64 kB RAM
I/O	4 ADC lines (10-bit), 13 Digital I/O, I2C
BLUETOOTH	BLE
CELLULAR CHARACTERISTICS	
TRANSMIT POWER	Up to 23 dBm
RECEIVE SENSITIVITY	-102 dBm
SUPPORTED BANDS	Bands 2, 4, 12 Bands 4, 13 (Verizon module)
DOWNLINK/UPLINK SPEEDS	10 mbps Downlink, 5 mbps Uplink (USB) 921 kbps Downlink and Uplink (UART)
DUPLEX MODE	Full-duplex
POWER REQUIREMENTS (AT 3.3 VDC INPUT POWER)	
SUPPLY VOLTAGE	3.0 to 5.5 V
PEAK TRANSMIT CURRENT	1000 mA Bluetooth disabled 1060 mA Bluetooth enabled
AVG TRANSMIT CURRENT	850 mA
AVG RECEIVE CURRENT	320 mA
REGULATORY AND CARRIER APPROVALS	
FCC (USA)	MCQ-XB3C1 and RI7XE866A1NA, MCQ-XB3C1 and RI7LE866SV1A (for Verizon module)
IC (CANADA)	1846A-XB3C1 and 5131A-XE866A1-NA, 1846A-XB3C1 and 5131A-LE866-SV1A (for Verizon module)
AT&T END-DEVICE CERTIFIED	Complete (XB3-C-A1-UT-001 only)
VERIZON END-DEVICE CERTIFIED	Complete (XB3-C-V1-UT-001 only)
TELUS END-DEVICE CERTIFIED	Complete (XB3-C-A1-UT-001 only)
BELL END-DEVICE CERTIFIED	Complete (XB3-C-A1-UT-001 only)
PTCRB	Complete (XB3-C-A1-UT-001 only)
WARRANTY	
PRODUCT WARRANTY	1-year

DIGI REMOTE MANAGER®

Digi Remote Manager is the technology platform that brings networks to the next level, allowing networks — and the people who manage them — to work smarter. With Digi Remote Manager you can transform a multitude of dispersed IoT devices into a dynamic, intelligent network. Now you can easily deploy, monitor and diagnose thousands of mission-critical devices from a single point of command — on your desktop, tablet or phone. All the while, its software-defined security diligently safeguards your entire Digi ecosystem.

Learn more at **www.digi.com/digi-remote-manager**

CAPABILITIES

- Activate, monitor and diagnose your mission-critical devices from a single point of command and control — on your desktop or mobile app
- Schedule key operations — including firmware updates and file management — on a single device or on a group of devices, keeping your network functionality up-to-date and maintaining compliance standards
- Manage edge devices out-of-band via console terminal access
- Keep tabs on device health and connectvity across device deployments of any size
- Create detailed reports and enable real-time alerts for specified conditions
- Integrate device data through open APIs to gain deeper insights and control with third-party applications
- Report and alert on performance statistics, including connection history, signal quality, latency, data usage and packet loss

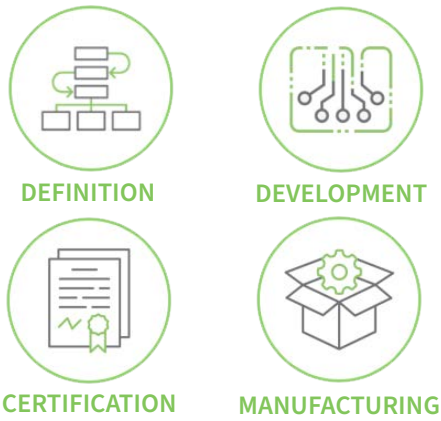
INFRASTRUCTURE

- Hosted in a commercial-grade cloud server environment that meets SOC 1®, SOC 2® and SOC 3® standards
- Superior availability, operating to 99.9% or greater
- Open APIs available to support application development

SECURITY

- More than 175 security controls in place to protect your data
- Member of the Center for Internet Security® (CIS®)
- Enables compliance with security frameworks like ISO27002, HIPAA, NIST and more
- Earned Skyhigh's CloudTrust™ Program highest rating of Enterprise-Ready

DIGI WIRELESS DESIGN SERVICES



GET TO MARKET FASTER

Digi Wireless Design Services (WDS) has a 15-year history of helping clients speed down the path to success by guiding them around the technological and regulatory certification pitfalls that that botch budgets and disrupt product introductions.

We begin by actively listening to your business and technical requirements, and then leverage our proven methodology, world-class engineering expertise and library of IP to design a cost-effective solution that is tailored to your specific needs.

Acceslerate toward the solution that is right for you and your customers. Contact Digi WDS to find out how we can guide you to success.

WDS SERVICES

We offer services to support you wherever you are along your development path:

- Proof of concept
- Architecture consultation
- Requirements definition
- System, software and electrical design
- Design reviews
- Certifications
- Prototype build
- Manufacturing test fixtures

WDS RECORD

Our record speaks for itself.

- 250+ product development projects
- 100+ certification failure rescues
- 100 million connected devices around the globe

DIGI XBEE® TOOLS

The Digi XBee Ecosystem is fully supported with the award-winning Digi XBee Tools suite. Designed to support the full product lifecycle, from prototyping and development to deployment and ongoing monitoring, Digi XBee Tools includes code libraries, testing and prototyping tools, product development and manufacturing support, and tools for deploying and managing end devices in the field.

DEVELOP BUILD DEPLOY MANAGE

DIGI DATA PLAN SERVICES

READY TO ACTIVATE

Modem includes SIM, ready to activate.

Work with Digi for your SIM and data management plan.

Visit shop.digi.com to activate.

- Ease of deployment and support with a single supplier
- Avoid extra costs and the complexity of having to purchase and insert SIM/program APN during manufacturing process
- No internal staff needed to manage carrier contracts and billing
- Leverage Digi's buying power, roll out at your own pace and avoid volume based commitments to carriers in exhange for cost effective rates

PART NUMBERS	DESCRIPTION
XK3-C-V1-T-UB	Digi XBee 3 Cellular Smart Modem, LTE Cat 1, Development Kit, Verizon
XK3-C-A1-T-UB	Digi XBee 3 Cellular Smart Modem, LTE Cat 1, Development Kit with XBIB-C Dev Board, AT&T
XB3-C-V1-UT-001	Digi XBee 3 Cellular Smart Modem, LTE Cat 1, Verizon
XB3-C-A1-UT-001	Digi XBee 3 Cellular Smart Modem, LTE Cat 1, AT&T
XB3-C-V1-UT-101	Digi XBee 3 Cellular Smart Modem, LTE Cat 1, Pre-inserted Verizon SIM
XBIB-CU-TH	Development board - XBee 3, USB-C, through-hole sockets
XBIB-C-GPS	Digi XBee GPS Daughter Board
XBEE-MP-TH	Digi XBee Multi Programmer, through-hole (TH)
XBEE-MP-TH-PCB	Digi XBee Multi Programmer, through-hole (TH) printed circuit board

FOR MORE INFORMATION PLEASE VISIT DIGI.COM

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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