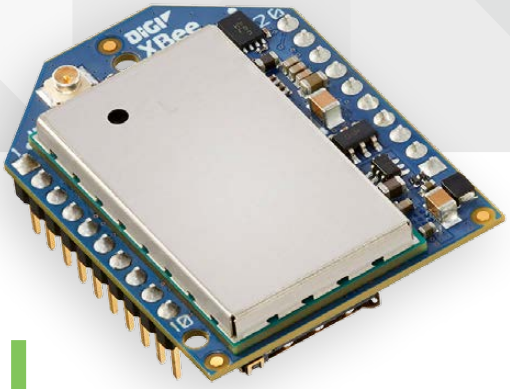
GLOBAL 3G CELLULAR
EMBEDDED MODEM



DIGI XBEE® CELLULAR 3G GLOBAL

Digi XBee Cellular 3G Global embedded modems provide OEMs with a simple way to integrate HSPA/GSM cellular connectivity into their devices.

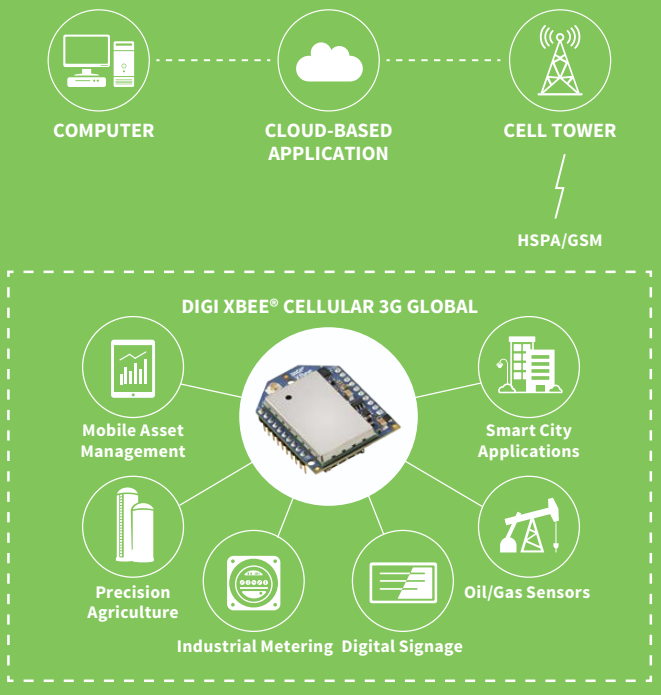
Digi XBee Cellular 3G Global embedded modems provide a simple path to 3G (HSPA/GSM) with 2G fallback connectivity for OEMs with worldwide deployments. This modem is FCC/IC, PTCRB and AT&T certified which completely eliminates the cost, complexity, and risk involved in the certification process.

The modem is programmable, with support for custom MicroPython applications running directly onboard, allowing developers to add their own unique features to their devices and eliminating the need for an external microcontroller in certain use-cases. It includes the full suite of standard Digi XBee API frames and AT commands, so existing customers can simply drop this modem into their existing designs to instantly achieve 3G cellular integration, without the pain and hassle of doing a complete re-design.

BENEFITS

- FCC/IC, PTCRB, and AT&T certified – eliminates certification costs and risks
- Transparent and API modes simplify software integration
- Low-power modes for battery powered applications
- Integrated MicroPython programmability enables custom scripting directly on the modem
- Enhanced with Digi TrustFence™ security framework
- Manage and configure with XCTU and Digi Remote Manager®
- Available with Digi provided SIM cards and data plans

APPLICATION EXAMPLE



RELATED PRODUCTS



SPECIFICATIONS	Digi XBee® Cellular 3G Global
INTERFACES AND HARDWARE	
CHIPSET REFERENCE	u-blox U201
SERIAL DATA INTERFACE	UART, SPI coming soon
CONFIGURATION METHODS	AT Commands, API Frames, local or OTA
OPERATING MODES	Transparent, API, Bypass
PROGRAMMABILITY	MicroPython with 8 KB Flash / 24 KB RAM
ANALOG I/O	4 ADC lines (10-bit)
DIGITAL I/O	13 DIO lines
FORM FACTOR	Digi XBee 20-pin through-hole
ANTENNA OPTIONS	1 U.FL
DIMENSIONS	24.38 mm x 32.94 mm
OPERATING TEMPERATURE	-40° C to +85° C (-30 to +70C if 2G fallback is enabled)
SIM CARD	4FF (Nano size)
RF CHARACTERISTICS	
TRANSMIT POWER	Up to 24 dBm (Power Class 3)
RECEIVE SENSITIVITY	-111 dBm
NETWORKING AND CARRIER	
CARRIER AND TECHNOLOGY	3G HSPA/GSM with 2G fall-back (see User Guide for more details on this feature)
SUPPORTED BANDS	Band 19 (800 MHz), Band 5 (850 Mhz), Band 8 (900 MHz), Band 2 (1900 MHz), Band 1 (2100 MHz)
SECURITY	Digi Trustfence™ security with Secure Boot, Encrypted Storage, Protected JTAG, SSL/TLS 1.2
RF THROUGHPUT	Up to 921 Kbps
DOWNLINK/UPLINK SPEEDS	7.2 Mbps / 5.76 Mbps
POWER REQUIREMENTS	
SUPPLY VOLTAGE	2.7 to 5.5 V
TRANSMIT CURRENT (24 DBM)	702 mA @ 3.3 V 425 mA @ 5 V
RECEIVE CURRENT	224 mA @ 3.3 V 160 mA @ 5 V
IDLE CURRENT (LISTENING)	87 mA @ 3.3 V 72 mA @ 5 V
DEEP SLEEP CURRENT	10 uA @ 3.3 V
REGULATORY AND CARRIER APPROVALS	
UNITED STATES	Contains FCC ID: XPYICGM5NNN
CANADA	Contains IC: 8595A-ICGM5NNN
EUROPE (CE)	Pending
ROHS	Lead-free and RoHS compliant
PTCRB CERTIFICATION	Yes
AT&T END DEVICE CERTIFIED	Yes

PART NUMBERS	DESCRIPTION
XBC-M5-UT-001	Digi XBee Cellular 3G Global, U.FL, TH, US/Canada/LATAM/EU
XKC-M5T-W	Digi XBee Cellular 3G Global Development Kit, U.FL, TH, US/Canada/LATAM/EU

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