

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!



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3G CELLULAR SMART MODEM



DIGI XBEE® CELLULAR 3G

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

Digi XBee Cellular smart modems were specifically designed to accelerate time to market for OEMs or solution providers adding cellular technology to their products. The modems are end-device certified, so there is no need to go through the costly and lengthy FCC or carrier end-device certifications. The software integration is simplified by using Digi's straightforward and flexible API.

Digi XBee Cellular 3G devices support 3G standards (HSPA/GSM) with fall back to 2G to maximize coverage globally. It is ideally suited for OEMs looking to have global cellular coverage on their products while minimizing the number of wireless standards supported.

With the suite of standard XBee API frames and AT commands, existing Digi XBee customers can seamlessly transition to this new modem with only minor software adjustments. When OEMs add the Digi 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.

Like all Digi products, customers can manage all of their wireless devices with Digi Remote Manager®. The XBee Cellular can also be bundled with a cellular data plan and SIM, eliminating the hassle of securing and managing carrier data plans.

BENEFITS

- FCC/IC, PTCRB, and AT&T certified eliminates certification costs and risks
- Integrated MicroPython programmability enables custom scripting directly on the modem
- 90 days of free cellular service with development kits
- Low-power modes for battery powered applications
- Enhanced with Digi TrustFence® security framework
- Manage and configure with XCTU and Digi Remote Manager®
- Transparent and API modes simplify software integration

END USER CLOUD-BASED APPLICATION CELL TOWER HSPA/GSM DIGI XBEE® CELLULAR 3G Mobile Asset Management Precision Agriculture Industrial Metering Digital Signage

RELATED PRODUCTS











Digi Design Services

CHIPSET REFERENCE u-blox U201 SERIAL DATA INTERFACE UART, SPI coming soon AT Commands, API Frames, local or OTA OPERATING MODES Transparent, API, Bypass PROGRAMMABILITY MicroPython with 8 KB Flash / 24 KB RAM ANALOG I/O 4ADC lines 10 bitl DIGITAL I/O 13 DIO lines FORM FACTOR Digit XBee 20-pin through hole ANTENNA OPTIONS 1LF. DIMENSIONS 24.38 mm x 32.94 mm OPERATING TEMPERATURE -40° Cto +85° C (-30 to +70 C if 26 fallback is enabled) SIM CARD 4FF (Nano size) RECEIVE SENSITIVITY -111 d/m NETWORKING AND CARRIER CARRIER AND TECHNOLOGY 36 HSPA/GSM with 26 fall back (see User Guide for more details on this feature) SUPPORTED BANDS Band 19 (800 MHz), Band 8 (800 MHz), Band 8 (100 MHz), Band 1 (2100 MHz) SECURITY Up to 92 ik Kbps FORM FACTOR - 22 Mm s 2.34 mm DOWNLINK/UDLINK SPEEDS 7 27 Mbgs 5, 76 Mbps POWER REQUIREMENTS SUPPLY VOLTAGE 27 No 5.76 Mbps POWER REQUIREMENT 22 Mm s 2.34 mm ANALOG 10 Mm s 2.34 mm s 2.34 mm TRANSMIT CURRENT (24 DBM) 425 mg s 30 RECEIVE SUPPLY OLTAGE 27 No 5.76 Mbps POWER REQUIREMENTS SUPPLY VOLTAGE 27 No 5.76 Mbps POWER REQUIREMENT 22 Mm s 2.34 mg s 3V RECEIVE CURRENT (15 DBM s 3 3V RECEIVE CURRENT 10 Mm s 3.3V RECEIVE CURRENT 10 Mm s 3.3V RECEIVER SUPPLY CONTRIBUTE (15 DE XPYLCGMSNN) CONTAINS CONTRIBUTE (15 DE XPYLCGMSNN) CONTAINS CONTRIBUTE (15 DE XPYLCGMSNN)	SPECIFICATIONS	Digi XBee® Cellular Smart Modem, 3G
SERIAL DATA INTERFACE UART, SPI coming soon	INTERFACES AND HARDWARE	
OPERATING MODES Transparent, API, Bypass PROGRAMABILITY Microlython with 8 KB Flash / 24 KB RAM ANALOG I/O 4 ADC lines (10-bit) DIGITAL I/O 13 DIG lines FORM FACTOR Digi XBsee 20-pin through-hole ANTENNA OPTIONS 1 U.F.L DIMENSIONS 2-43-8 mm x3.24 mm OPERATING TEMPERATURE 4-0° C to +85° C (-30 to +70C if 26 fallback is enabled) SIM CARD RECENTE SENSITIVITY -111 dBm NETHORNAMIT POWER Up to 24 dBm (Power Class 3) RECENTE SENSITIVITY -111 dBm NETHORNAMIT POWER ASHER AND EACH FOR (30 MHz), Band 5 (80 MHz), Band 5 (900 MHz), Band 1 (2100 MHz) SECURITY DIGI YILL SENSITIVITY -10 to 1921 Köps DOWNLINK JUPLINK SPEEDS -1	CHIPSET REFERENCE	u-blox U201
### PROPRATING MODES Transparent, API, Bypass PROGRAMMABILITY MicroPython with 8 KB Flash / 24 KB RAM	SERIAL DATA INTERFACE	UART, SPI coming soon
PROGRAMMABILITY MicroPython with a Kir Flash / 24 Kir RAM ANALOG I/O 4 ADC lines (10-bit) DIGITAL I/O 13 DID lines FORM FACTOR Digit Stee 20-pin through-hole ANATENNA OPTIONS 1 U.FL DIMENSIONS 24.38 mm x 32.94 mm OPERATING TEMPERATURE 40° C to +85° C (-30 to +70 C if 26 fallback is enabled) SIM CARD AFF (Nano size) RE CHARACTERISTICS TRANSMIT POWER Up to 24 dBm (Power Class 3) RECELVE SENSITIVITY -111 dBm NETWORKING AND CARRIER CARRIER AND TECHNOLOGY 36 HSPA/SSM with 26 fall-back (see User Guide for more details on this feature) SUPPORTED BANDS Band 19 (800 MHz), Band 3 (800 MHz), Band 2 (1900 MHz), Band 1 (2100 MHz) SECURITY DIGIT Instifence® security with Secure Boot, Encrypted Storage, Protected JTAG, SSI/TLS 1.2 RET THROUGHPUT Up to 921 Kbps POWER REQUIREMENTS SUPPLY VOLTAGE 7.7 Mbps / 5.76 Mbps POWER REQUIREMENTS SUPPLY VOLTAGE 27 na @ 3.3 V 425 m @ 5.9 V 425 m @ 5.0 V 425	CONFIGURATION METHODS	AT Commands, API Frames, local or OTA
ANALOG I/O 4ADC lines (16-bit) DIGITAL I/O 13 DIO lines FORM FACTOR DIGITAL I/O 13 DIO lines FORM FACTOR DIGITAL I/O 14 DIMENSIONS 1 LUFL DIMENSIONS 24.38 mm x32.94 mm OPERATING TEMPERATURE 40°C to +85°C (-30 to +70°C if 26 fallback is enabled) SIM CARD 4FF (Nano size) RF CHARACTERISTICS TRANSMIT POWER Up to 24 dBm (Power Class 3) RECEIVE SENSITIVITY 11 dBm NETWORKING AND CARRIER CARRIER AND TECHNOLOGY 36 HSPA/SSM with 26 fall-back (see User Guide for more details on this feature) SUPPORTED BANDS Band 19 (800 MHz), Band 5 (830 MHz), Band 6 (830 MHz), Band 2 (1950 MHz), Band 1 (2100 MHz) SECURITY DIGITAL INSTITUTE Up to 321 Kbps SECURITY Up to 321 Kbps DOWNLINK/UPLINK SPEEDS 7.2 Mbps / 5.76 Mbps POWER REQUIREMENTS SUPPLY VOLTAGE 2.7 to 5.5 V TRANSMIT CURRENT (24 DBM) 70°C ma @ 3.3 V 425 mm @ 3.3 V 425 mm @ 3.3 V 425 mm @ 3.3 V 126 CURRENT (LISTENING) 70°C ma @ 3.3 V 426 mm @ 3.3 V 127 ma @ 3.3 V 128 mg @ 3.3 V 129 mg @ 3.3 V 120 mg @ 3.0 V 120 mg @	OPERATING MODES	Transparent, API, Bypass
ANALOG I/O 4ADC lines (16-bit) DIGITAL I/O 13 DIO lines FORM FACTOR DIGITAL I/O 13 DIO lines FORM FACTOR DIGITAL I/O 14 DIMENSIONS 1 LUFL DIMENSIONS 24.38 mm x32.94 mm OPERATING TEMPERATURE 40°C to +85°C (-30 to +70°C if 26 fallback is enabled) SIM CARD 4FF (Nano size) RF CHARACTERISTICS TRANSMIT POWER Up to 24 dBm (Power Class 3) RECEIVE SENSITIVITY 11 dBm NETWORKING AND CARRIER CARRIER AND TECHNOLOGY 36 HSPA/SSM with 26 fall-back (see User Guide for more details on this feature) SUPPORTED BANDS Band 19 (800 MHz), Band 5 (830 MHz), Band 6 (830 MHz), Band 2 (1950 MHz), Band 1 (2100 MHz) SECURITY DIGITAL INSTITUTE Up to 321 Kbps SECURITY Up to 321 Kbps DOWNLINK/UPLINK SPEEDS 7.2 Mbps / 5.76 Mbps POWER REQUIREMENTS SUPPLY VOLTAGE 2.7 to 5.5 V TRANSMIT CURRENT (24 DBM) 70°C ma @ 3.3 V 425 mm @ 3.3 V 425 mm @ 3.3 V 425 mm @ 3.3 V 126 CURRENT (LISTENING) 70°C ma @ 3.3 V 426 mm @ 3.3 V 127 ma @ 3.3 V 128 mg @ 3.3 V 129 mg @ 3.3 V 120 mg @ 3.0 V 120 mg @	PROGRAMMABILITY	MicroPython with 8 KB Flash / 24 KB RAM
DIGITAL I/O 13 DIO lines	ANALOG I/O	4 ADC lines (10-bit)
FORM FACTOR DIgit XBee 20-pin through-hole ANTENNA OPTIONS 1U.FL DIMENSIONS 24.38 mm x 32.94 mm OPERATING TEMPERATURE 40° C to *85° C (30 to *70C if 26 fallback is enabled) SIM CARD 4FF (Nano size) FF CHARACTERISTICS FF CHARACTERISTICY -111 dBm NETWORKING AND CARRIER CARRIER AND TECHNOLOGY 3G HSPA/GSM with 26 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 FF THROUGHPUT Up to 921 Kbps DOWNLINK/UPLINK SPEEDS 7, Mbps / 5,76 Mbps POWER REQUIREMENTS SUPPLY VOLTAGE 2, To 5.5 V TRANSMIT CURRENT (24 DBM) 72 mA@ 3.3 V RECEIVE CURRENT 100 mA@ 3.3 V RECEIVE CURRENT 101 ma@ 3.3 V RECEIVE CURRENT 101 ma@ 3.3 V RECEIVE CURRENT 101 ma@ 3.3 V REQUILATION AND CARRIER APPROVALS UNITED STATES CONTAINS CONTAINS CONTAINS CONTAINS CANDAD ETSI (EUROPE) CERED ROM (15 C SPEED CREMONN) CANDAD CONTAINS CERED CONTAINS CON		
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Band 19 (800 MHz), Band 5 (850 Mhz), Band 8 (900 MHz), Band 2 (1900 MHz), Band 1 (1000 MHz) SECURITY Digi Trustfence™ security with Secure Boot, Encrypted Storage, Protected JTAG, SSL/TLS 1.2 RF THROUGHPUT Up to 921 Kbps 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 160 mA @ 5 V DEEP SLEEP CURRENT 10 uA @ 3.3 V TREGULATORY AND CARRIER APPROVALS UNITED STATES Contains FCC ID: XPY1CGM5NNN CANADA Contains IC: 8595A-1CGM5NNN ETSI (EUROPE) RCM (AUSTRALIA/NEW ZEALAND) COMING soon ROHS LEAd-free and ROHS compliant PTCRB CERTIFICATION Yes	NETWORKING AND CARRIER	
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RF THROUGHPUT DOWNLINK/UPLINK SPEEDS 7.2 Mbps / 5.76 Mbps 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 160 ma @ 5 V IDLE CURRENT (LISTENING) 87 ma @ 3.3 V 72 ma @ 5.3 V 72 ma @ 5.5 V DEEP SLEEP CURRENT 10 uA @ 3.3 V 72 ma @ 5 V UNITED STATES Contains FCC ID: XPY1CGM5NNN ETSI (EUROPE) CANADA Contains IC: 8595A-1CGM5NNN ETSI (EUROPE) CE/RED RCM (AUSTRALIA/NEW ZEALAND) COMING soon ROHS Lead-free and RoHS compliant PTCRB CERTIFICATION Yes	SUPPORTED BANDS	Band 19 (800 MHz), Band 5 (850 Mhz), Band 8 (900 MHz), Band 2 (1900 MHz), Band 1 (2100 MHz)
DOWNLINK/UPLINK SPEEDS 7.2 Mbps / 5.76 Mbps POWER REQUIREMENTS SUPPLY VOLTAGE 2.7 to 5.5 V 702 mA @ 3.3 V 425 m A @ 5 V RECEIVE CURRENT 100 mA @ 5 V IDLE CURRENT (LISTENING) 87 mA @ 3.3 V 72 mA @ 5.3 V 72 mA @ 5.5 V DEEP SLEEP CURRENT 10 u A @ 3.3 V REGULATORY AND CARRIER APPROVALS UNITED STATES Contains FCC ID: XPY1CGM5NNN CANADA Contains IC: 8595A-1CGM5NNN ETSI (EUROPE) CE/RED RCM (AUSTRALIA/NEW ZEALAND) ROHS LEad-free and ROHS compliant PTCRB CERTIFICATION Yes	SECURITY	Digi Trustfence™ security with Secure Boot, Encrypted Storage, Protected JTAG, SSL/TLS 1.2
POWER REQUIREMENTS SUPPLY VOLTAGE 2.7 to 5.5 V TRANSMIT CURRENT (24 DBM) RECEIVE CURRENT 10 mA @ 3.3 V 160 mA @ 5 V 10LE 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: XPY1CGM5NNN CANADA Contains IC: 8595A-1CGM5NNN ETSI (EUROPE) RCM (AUSTRALIA/NEW ZEALAND) ROHS Lead-free and RoHS compliant PTCRB CERTIFICATION Yes	RF THROUGHPUT	Up to 921 Kbps
SUPPLY VOLTAGE 2.7 to 5.5 V TRANSMIT CURRENT (24 DBM) 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: XPY1CGM5NNN CANADA Contains IC: 8595A-1CGM5NNN ETSI (EUROPE) RCM (AUSTRALIA/NEW ZEALAND) ROHS Lead-free and ROHS compliant PTCRB CERTIFICATION Yes	DOWNLINK/UPLINK SPEEDS	7.2 Mbps / 5.76 Mbps
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CANADA Contains IC: 8595A-1CGM5NNN ETSI (EUROPE) CE/RED RCM (AUSTRALIA/NEW ZEALAND) Coming soon ROHS Lead-free and RoHS compliant PTCRB CERTIFICATION Yes	REGULATORY AND CARRIER APPROVALS	
ETSI (EUROPE) RCM (AUSTRALIA/NEW ZEALAND) ROHS Lead-free and RoHS compliant PTCRB CERTIFICATION CE/RED Coming soon Yes	UNITED STATES	Contains FCC ID: XPY1CGM5NNN
RCM (AUSTRALIA/NEW ZEALAND) Coming soon ROHS Lead-free and RoHS compliant PTCRB CERTIFICATION Yes	CANADA	
ROHS Lead-free and RoHS compliant PTCRB CERTIFICATION Yes	ETSI (EUROPE)	
PTCRB CERTIFICATION Yes		
AIXI END DEVICE CERTIFIED Tes		
	ATAT END DEVICE CERTIFIED	162

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

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