



- MICRO FORM FACTOR
- DIGI TRUSTFENCE® SECURED
- MICROPYTHON PROGRAMMABLE

1/3 THE SIZE OF CURRENT DIGI XBEE SMT



DIGI XBEE³ 802.15.4

Low-cost, easy-to-deploy modules for critical end-point device and sensor connectivity.

Digi XBee3™ 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 XBee3 modules offer the flexibility to switch between multiple frequencies and wireless protocols as needed.

Digi XBee3 802.15.4 modules are ideal for applications requiring low latency and predictable communication timing. Providing quick, robust communication in point-to-point, peer-to-peer, and multipoint/star configurations, Digi XBee3 enables robust end-point connectivity with ease.

With Digi Remote Manager®, Digi XBee3 modules can be easily configured and controlled from a simple, central platform. Built-in Digi TrustFence® security, identity and data privacy features use more than 175 controls to protect against new and evolving cyber threats. MicroPython and XCTU software tools simplify adding functionality, configuration and testing.

From edge computing to future migration, Digi XBee modules offer size, weight, power and performance advantages ideal for scalable device connectivity. A versatile addition to the expanding Digi XBee Ecosystem of wireless modules, adapters and software, the Digi XBee3 Series is engineered to accelerate development and deployment.

SIZE AND FLEXIBILITY

- At 13 mm x 19 mm, the new Digi XBee3 micro form factor allows for more compact and portable applications
- Digi XBee3 is one module for all protocols including: ZigBee, 802.15.4, DigiMesh, and BLE, all configurable via Digi XCTU

PROGRAMMABILITY

- Eliminate the need for an external microcontroller and create smart end nodes and low-end gateways using MicroPython

SECURITY

- Intrinsic IoT security with Digi TrustFence®, a layered approach securing the edge device, through the gateway, into and out of the IoT

RELATED PRODUCTS AND SERVICES



Development Kits



Digi XCTU



Digi TrustFence®

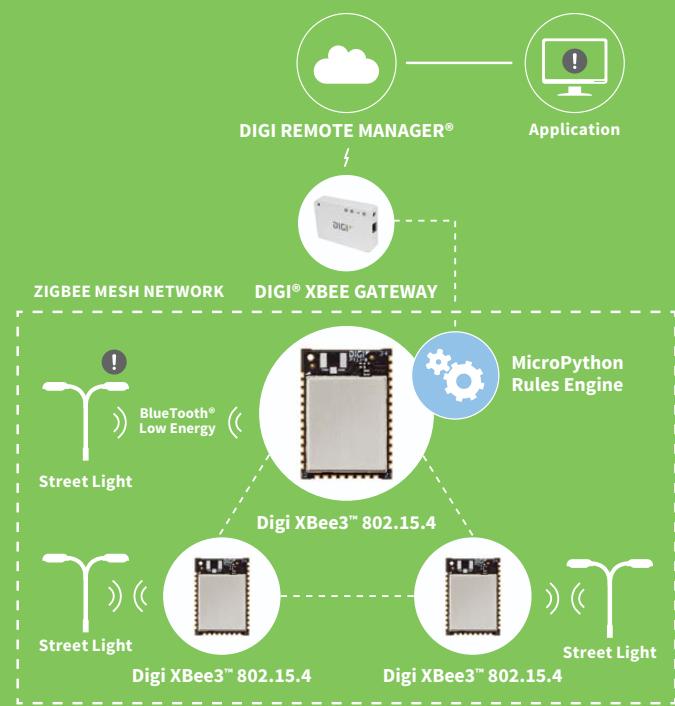


Digi Remote Manager®



Digi Design Services

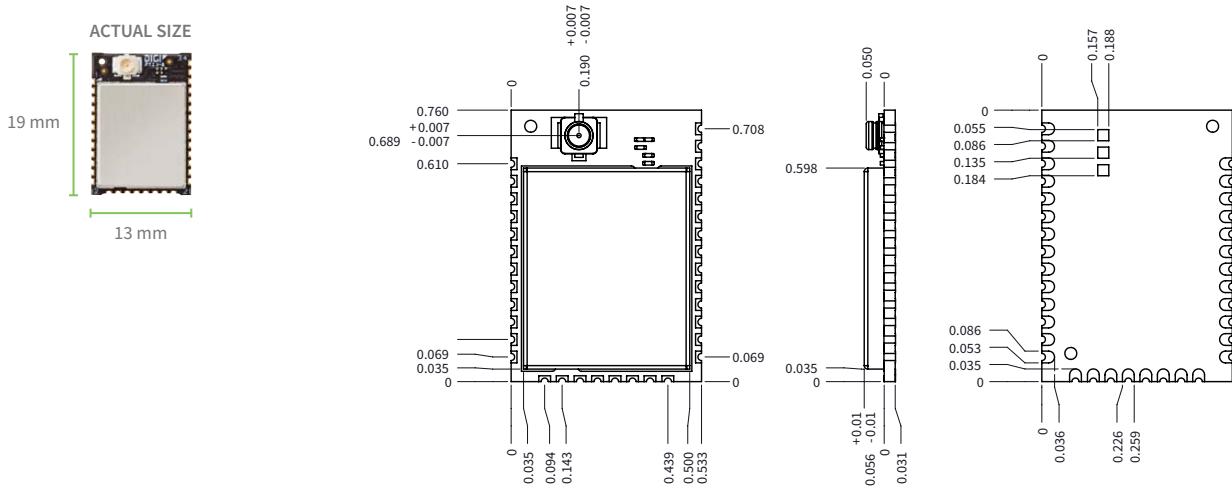
APPLICATION EXAMPLE



SPECIFICATIONS		Digi XBee3™ 802.15.4	Digi XBee3™ PRO 802.15.4
PERFORMANCE			
DATA RATE	RF 250 Kbps, Serial up to 1 Mbps		
INDOOR/URBAN RANGE	200 ft (60 m)	300 ft (90 m)	
OUTDOOR/RF LINE-OF-SIGHT RANGE	4000 ft (1200 m)	2 miles (3200 m)	
TRANSMIT POWER	+8 dBm	+19 dBm	
RECEIVER SENSITIVITY (1% PER)	-103 dBm Normal Mode		
FEATURES			
SERIAL DATA INTERFACE	UART, SPI, I²C		
CONFIGURATION METHOD	API or AT commands, local or over-the-air (OTA)		
FREQUENCY BAND	ISM 2.4 GHz		
FORM FACTOR	Micro		
INTERFERENCE IMMUNITY	DSSS (Direct Sequence Spread Spectrum)		
ADC INPUTS	(4) 10-bit ADC inputs		
DIGITAL I/O	15		
ANTENNA OPTIONS	Micro: U.FL Antenna, RF Pad, Chip Antenna		
OPERATING TEMPERATURE	-40° C to +85° C		
DIMENSIONS (L X W X H)	Micro: 0.533 x 0.76 x 0.087 in (13 x 19 x 2 mm)		
PROGRAMMABILITY			
MEMORY	1 MB / 128 KB RAM		
CPU/CLOCK SPEED	HCS08 / up to 50.33 MHz		
NETWORKING AND SECURITY			
PROTOCOL	802.15.4		
ENCRYPTION	128/256 bit AES		
RELIABLE PACKET DELIVERY	Retries/Acknowledgements		
IDS	PAN ID and addresses, cluster IDs and endpoints (optional)		
CHANNELS	16 channels		
POWER REQUIREMENTS			
SUPPLY VOLTAGE	2.1 to 3.6V		
TRANSMIT CURRENT	40 mA @ 8 dBm		
RECEIVE CURRENT	15 mA	135 mA @ 19 dBm	
POWER-DOWN CURRENT	1.7 micro Amp @ 25 degrees C		
REGULATORY APPROVALS			
FCC, IC (NORTH AMERICA)	Yes		Yes
ETSI (EUROPE)	Yes		No

Part Numbers	Description
XB3-24ARM-J	Digi XBee3, 2.4 Ghz, 802.15.4, Micro, RF Pad Ant, MMT
XB3-24AUM-J	Digi XBee3, 2.4 Ghz, 802.15.4, Micro, U.FL Ant, MMT
XB3-24ACM-J	Digi XBee3, 2.4 Ghz, 802.15.4, Micro, Chip Ant, MMT
XB3-24ARM	Digi XBee3 PRO, 2.4 Ghz, 802.15.4, Micro, RF Pad Ant, MMT
XB3-24AUM	Digi XBee3 PRO, 2.4 Ghz, 802.15.4, Micro, U.FL Ant, MMT
XB3-24ACM	Digi XBee3 PRO, 2.4 Ghz, 802.15.4, Micro, Chip Ant, MMT

PRODUCT DIMENSIONS



FOR MORE INFORMATION
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