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



DIGI XBEE 3 802.15.4

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

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.

Digi XBee 3 802.15.4 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 XBee 3 enables robust end-point connectivity with ease.

With Digi Remote Manager[®], Digi XBee 3 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 XBee 3 Series is engineered to accelerate development and deployment.

SIZE AND FLEXIBILITY

DIG

- At 13 mm x 19 mm, the new Digi XBee® 3 micro form factor allows for more compact and portable applications
- Digi XBee 3 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 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

Digi Design

PERFORMACEVertical Vertical Vertica	SPECIFICATIONS	Digi XBee 3 802.15.4	Digi XBee 3 PRO 802.15.4	
NNDORAY/URBAN RANGE*Up to x00 m (x00 h)up to x00 m (x00 h)ONTDORAY/PLING-PS-SIGNUp to x00 m (x00 h)up to x00 m (x00 h)TRANSMIT FOWER4848049 dBmRECEVER SENSTIVITY (x00 m)	PERFORMANCE			
NUTOON/IPF LNE-OP-SIGN RANGETUp to 2020 m (2 miles)TRANSMIT POWER4-36m4-36m3-3 dbmFRAUENTER3-3 dbmERCEIVER SENSITITITY up (2 miles)3-3 dbmSERIAL DATA INTERFACEMART SAP, PCCONFIGURATION METHODAPT of A commands, local or over-the-sir (01A)FREQUENCY BANDSISX (Direct Sequence Spread S	DATA RATE	FE RF 250 Kbps, Serial up to 1 Mbps		
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RECEIVER SENSITIVITY (13: Han definition of the set of the		Up to 1200 m (4000 ft)	Up to 3200 m (2 miles)	
Partners Vertical V	TRANSMIT POWER	+8 dBm	+19 dBm	
SERUL DATA INTERFACEUART, SPL, PCCONFIGURATION METHODAPI or AT commands, local or over the air (OTA)FREQUENCY BANDISM2.4 GHzFORM ACTORMicoFORM FACTORMicoINTERFERENCE IMMUNITYDSSS Direce Spread Spectrum)ODIGITAL /OISADCINPUTSOSSS Direce Spread SpectrumADCINPUTSDisSC USCA Chap Antenna, RF Pad, Chip AntennaOPERATING TEMPERATUREMico: US. Antenna, RF Pad, Chip AntennaOPERATING TEMPERATURE40° CLO 85°	RECEIVER SENSITIVITY (1% PER)	-103 dBm Normal Mode		
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ANATEL (BRAZIL) Yes TELECK MIC (JAPAN) Yes	ETSI (EUROPE)	Yes	No	
TELECK MIC (JAPAN) Yes No	RCM (AUSTRALIA)	Yes	Yes	
	ANATEL (BRAZIL)	Yes	Yes	
KCC (SOUTH KOREA) Yes Yes	TELECK MIC (JAPAN)	Yes	No	
	KCC (SOUTH KOREA)	Yes	Yes	

*Range figure estimates are based on free-air terrain with limited sources of interference. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting antenna, height of receiving antenna, weather conditions, interference sources in the area, and terrain between receiver and transmitter, including indoor and outdoor structures such as walls, trees, buildings, hills, and mountains.



PART NUMBERS	DESCRIPTION
XB3-24ARM-J	Digi XBee 3, 2.4 Ghz, 802.15.4, Micro, RF Pad Ant, MMT
XB3-24AUM-J	Digi XBee 3, 2.4 Ghz, 802.15.4, Micro, U.FL Ant, MMT
XB3-24ACM-J	Digi XBee 3, 2.4 Ghz, 802.15.4, Micro, Chip Ant, MMT
XB3-24ARM	Digi XBee 3 PRO, 2.4 Ghz, 802.15.4, Micro, RF Pad Ant, MMT
XB3-24AUM	Digi XBee 3 PRO, 2.4 Ghz, 802.15.4, Micro, U.FL Ant, MMT
XB3-24ACM	Digi XBee 3 PRO, 2.4 Ghz, 802.15.4, Micro, Chip Ant, MMT
A24-HABUF-P5I	Antenna - 2.4 GHz, half wave dipole, 2.1 dBi, U.FL female, articulating
A24-HASM-450	Antenna - 2.4 GHz, half wave dipole, 2.1 dBi, RPSMA male, articulating
A24-HASM-525	Antenna - 2.4 GHz, half wave dipole, 2.1 dBi, RPSMA male, articulating
DC-ANT-24DT	Antenna - Wi-Fi, table-top mount, 2450 Mhz, 0.5 m cable

PRODUCT DIMENSIONS





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