

DIGI XBEE TO IP
GATEWAY WITH CLOUD
MANAGEMENT SERVICES



DIGI XBEE® INDUSTRIAL GATEWAY

Programmable gateway connects Digi XBee enabled devices to remote applications over Cellular or Ethernet

The Digi XBee Industrial Gateway is a rugged Digi XBee to IP solution. Ideal for any environment, the gateway has an extended temperature range and rugged enclosure.

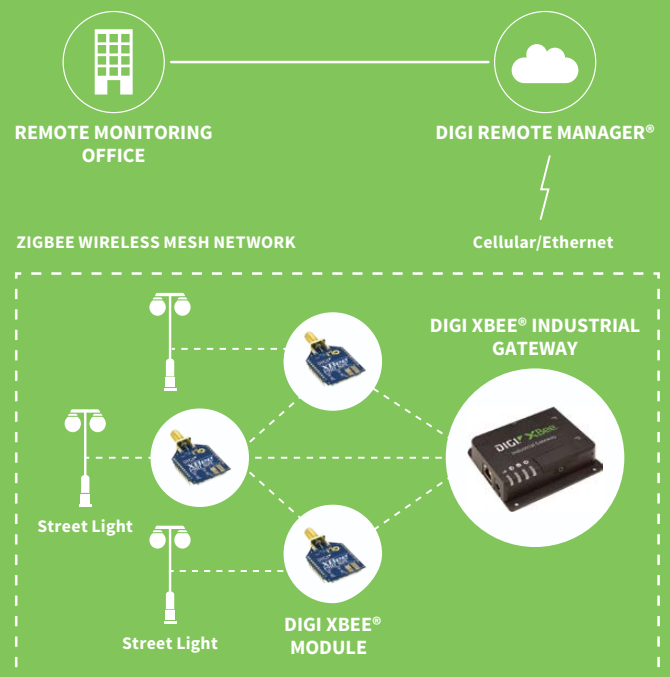
The Digi XBee Industrial Gateway, features scalable remote configuration and management of Digi XBee networks. By default, all Digi XBee data sent to the gateway is automatically available to online applications via Digi Remote Manager®. With a simple, open-source Python development environment, this gateway also enables custom applications to run locally while interfacing across existing Ethernet or Cellular networks for WAN connectivity to cloud-based applications.

Digi XBee Gateway products can be managed remotely via Digi Remote Manager, supporting features like remote firmware upgrades, configuration changes and event alarms. With Digi Remote Manager, users can scale their network from a single device to hundreds of thousands of remote devices.

BENEFITS

- Open-source Python environment for custom application development on the gateway
- Out-of-box integration with Digi Remote Manager® enables remote connectivity, configuration and management of Digi XBee networks
- ZigBee enabled for connection to local wireless devices
- Cellular and Ethernet WAN options for flexible broadband connectivity
- Can be deployed in any environment due to industrial temp range and rugged enclosure

APPLICATION EXAMPLE



RELATED PRODUCTS



Modules



Adapters



Development
Kits



Digi Remote
Manager®



Digi Design
Services

SPECIFICATIONS

Digi XBee® Industrial Gateway

Digi XBee® Industrial Cellular Gateway

GENERAL		
MANAGEMENT	Secure enterprise management via Digi Remote Manager®	
PROTOCOLS	UDP/TCP, DHCP	
LEDS	Cellular Signal Strength, Network (LAN/WAN), ZigBee (Wireless LAN), Power	
SECURITY	TLS 1.2, Cellular network security	
WWAN		
3G HSPA+, BANDS	N/A	B5(850), B8(900), B2(1900), B1(2100), B4(AWS)
LTE CATEGORY 1	N/A	Verizon: Bands 2, 4, 13 AT&T, T-Mobile: B2(1900), B4(AWS1700), B5(850), B12/B12(700)
ANTENNA CONNECTORS	N/A	HSPA+ version: 1 x 50 Ω SMA (Center pin: female); LTE version: 2 x 50 Ω SMA (Center pin: female)
SIM SLOTS	N/A	2 x 2FF SIM slots; second SIM slot reserved for future use
SIM SECURITY	N/A	Screw-down SIM cover
SOFTWARE & MANAGEMENT		
PYTHON	2.7.1	
MEMORY FREE SPACE	20MB RAM and 20MB Flash for Python applications	
XBEE GATEWAY APPLICATION	Wireless LAN data sent to the gateway is automatically available to online applications via Digi Remote Manager	
ZIGBEE		
ZIGBEE STACK	ZigBee Standard and ZigBee PRO versions available	
ZIGBEE MODULE	Standard: Digi XBee ZB SMT (S2C); PRO: Digi XBee Pro ZB SMT (S2C)	
ZIGBEE	Standard: Transmit power 6.3 mW (+8 dBm); Receiver sensitivity: -102 dBm PRO: Transmit Power 63mW (18dBm): Receiver sensitivity: -102dBm	
ZIGBEE ANTENNA	1 x 50 Ω SMA (Center pin: female)	
ETHERNET		
PORTS	1 RJ-45 port	
PHYSICAL LAYER	10/100Base-T	
DATA RATE	10/100 Mbps (auto-sensing)	
MODE	Full or half duplex (auto-sensing)	
INTERFACE	Auto MDI/MDIX	
ROUTING	Ethernet port designed for configuration and WAN backhaul	
PHYSICAL		
DIMENSIONS (L X W X H)	7.62 cm x 10.16 cm x 2.54 cm (3 in x 4 in x 1 in)	
WEIGHT	0.5 lb (.22 kg)	
ENCLOSURE MATERIAL/RATING	Industrial (Metal)/IP30	
POWER REQUIREMENTS		
POWER INPUT	5VDC +/- 5%; Digi approved power supply must be used	
POWER SUPPLY	See accessory options	
POWER CONSUMPTION	Typical 1.2 W, Max 2.5 W	Typical 3.5 W; Max 11 W
ENVIRONMENTAL		
OPERATING TEMPERATURE	-30° C to 70° C (-22° F to 158° F)	-30° C to +70° C (-22° F to +158° F) Reduced performance above 60° C
RELATIVE HUMIDITY	5% to 95% (non-condensing)	
APPROVALS		
GSM/UMTS	PTCRB	
CELLULAR CARRIERS	Verizon, AT&T, Certified by most major international carriers	
SAFETY	IEC 60950-1:2005; EN 60950-1:2006; CSA C22.22 No. 60950-1	
EMISSIONS/IMMUNITY	FCC Part 15b, Industry Canada (IC), CE Mark	
WARRANTY		
PRODUCT WARRANTY	5 years	

PART NUMBERS**DIGI XBEE® INDUSTRIAL GATEWAY**

XGI-20CZ7-E00-W0	Digi XBee Industrial Gateway - ZigBee to Ethernet, power supply and antenna not included
XGI-20CZ7-EU7-W0	Digi XBee Industrial Gateway - ZigBee to HSPA+, power supply and antenna not included
XGI-2PCZ7-E00-W0	Digi XBee Industrial Gateway - ZigBee Pro to Ethernet, power supply and antenna not included
XGI-2PCZ7-EL1-W0	Digi XBee Industrial Gateway - ZigBee Pro to CAT 1, power supply and antenna not included

PART NUMBERS**ACCESSORIES**

76000976	Kit, Digi TransPort 9-30V DC/DC adapter
76002021	Power supply, 5V barrel plug, wall plug in, commercial range
76000965	Kit, Digi TransPort WR11 XT power supply Int, industrial temperature range