

ConnectPort® X2

ZigBee Smart Energy Certified IP Gateway

Gateways with the ZigBee Smart Energy public profile provide interoperable IP-to-application connectivity.



Overview

The ConnectPort X2 for Smart Energy provides a low-cost connection between a Home Area Network (HAN) and an energy service provider's software application over an IP connection. The gateway incorporates the ZigBee Smart Energy wireless standard (or "Public Application Profile"), making it interoperable with non-Digi devices. The ZigBee Smart Energy standard also allows the ConnectPort X2 to define what information the device will send over the network and how to behave with other devices on the network.

ConnectPort X2 can be combined with Device Cloud by Etherios™ service to create a platform for serving data to a software application layer. This allows energy service providers to develop their own unique, customizable Smart Energy solutions without designing customized hardware.

Built on the XBee-PRO® ZB ZigBee module, the gateways feature firmware supporting the implementation of each of the eight devices defined in the ZigBee Smart Energy Public Application Profile. The module also handles networking, joining, authentication and key establishment functions.

Related Products



Device Cloud Solutions



SE Gateways



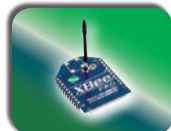
SE Range Extenders



Dev Kits

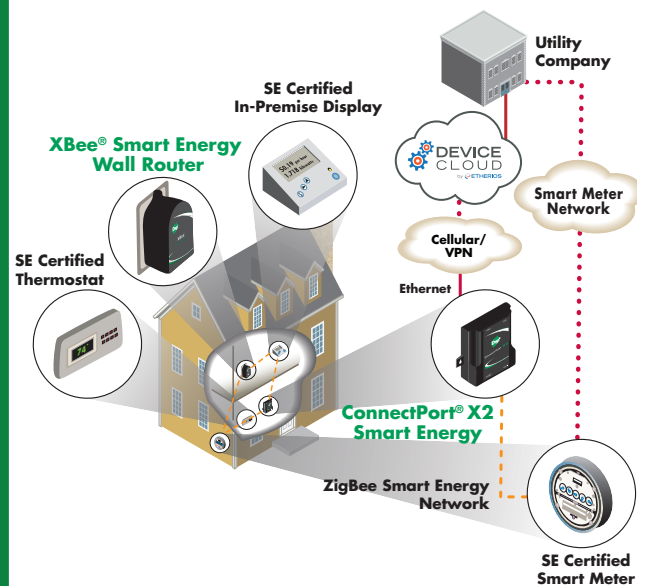


Cellular Gateways



SE Ready Modules

Application Highlight



Features/Benefits

- Full certification as a ZigBee Alliance SE 1.0 Energy Service Portal enables the Home Area Network to operate independent from any Smart Meter network if needed
- Python® open scripting support enables the device to function as a secondary gateway alongside an installed Smart Energy certified meter
- Device Cloud service manages connectivity, configuration and software upgrades, and provides a web-services interface to any current or future energy service application
- Digi's hardware design expertise speeds time-to-market and software development



Specifications

ConnectPort® X2 for Smart Energy

General	
Management	HTTP/HTTPS web interface, Password access control, IP service port control, Optional secure enterprise management via Device Cloud
Protocols	UDP/TCP, DHCP, SNMPv1
LEDs	Ethernet status, Power, ZigBee link/activity
Security	SSL tunnels
ZigBee	XBee-PRO® 80 mW (+19.1 dBm, including 2.1 dBi antenna) / Int'l 10 mW (+10 dBm)
Dimensions (L x W x H)	2.81 in x 2.74 in x 1.30 in (7.14 cm x 6.96 cm x 3.30 cm)
Weight	0.20 lb (0.09 kg)
Development	
ZigBee Public Application Profile	Smart Energy
Python Version	2.4.3
Memory (User-available memory varies by firmware and OS version)	8 MB RAM, 4 MB Flash
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)
Power Requirements	
Power Input	5 VDC
Power Supply	5 VDC power supply with barrel connector included
Power Consumption	Idle: 1.2 W, Max: 3.4 W
Surge Protection (with included power supply)	4 kV burst (EFT) per 4-4, 2 kV surge per EN61000-4
Environmental	
Operating Temperature	-30° C to +70° C (-22° F to +158° F)
Relative Humidity	5% to 95% (non-condensing)
Ethernet Isolation	1500VAC min per IEEE802.3/ANSI X3.263
Regulatory Approvals	
Safety	EN60950
Emissions/Immunity	CE, FCC Part 15 (Class B), IC, ETSI, C-TICK, Telec



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