

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 iDigi® Device Cloud™ 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



iDigi Solutions



SE Gateways



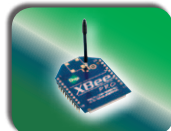
SE Range Extenders



Dev Kits

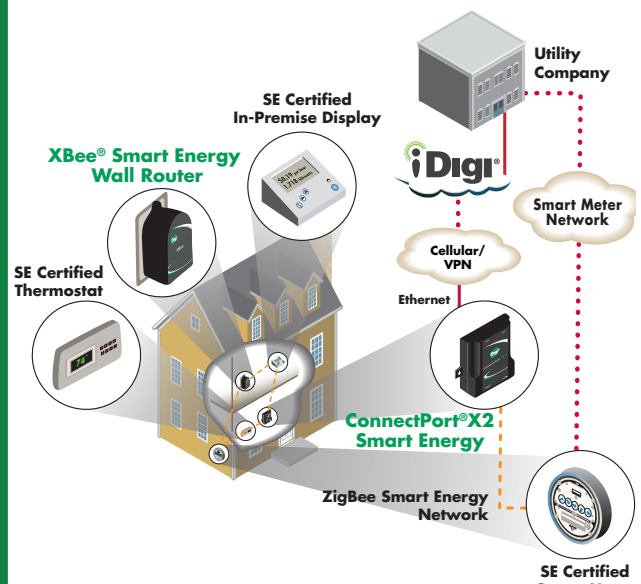


Cellular Gateways



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
- Digi-hosted iDigi 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 iDigi	
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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