

PRELIMINARY

ConnectPort[®] X2

Secure Wireless M-Bus Gateway

Low-cost Wireless M-Bus enabled gateway operates on the European 868 MHz ISM band and is designed to simplify Smart Energy applications.



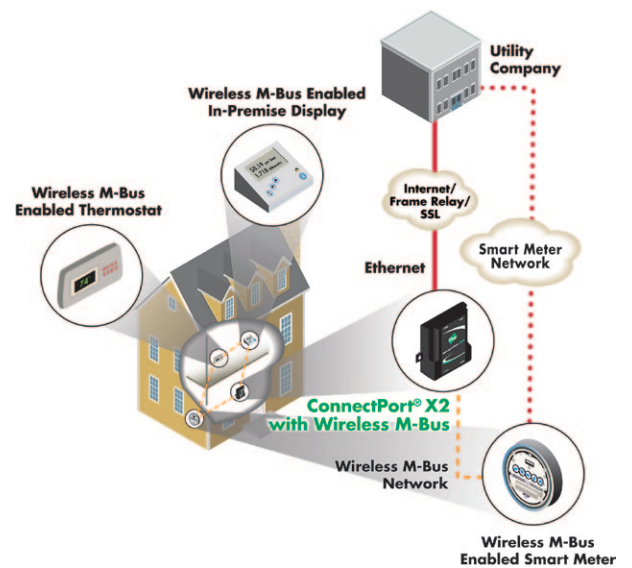
Overview

The ConnectPort X2 with Wireless M-Bus provides a secure and reliable connection that adds monitoring capabilities between a Home Area Network (HAN) and an energy service provider's management infrastructure.

The gateway incorporates the Wireless M-Bus standard (EN13757-4:2005), which defines the communications protocol between devices such as water, gas, heat and electricity meters, in-home displays and concentrators. The ConnectPort X2 with Wireless M-Bus enables energy service providers to deploy HAN devices such as in-home displays, ideal for today's smart grid initiatives.

The ConnectPort X2 with Wireless M-Bus is programmable via Python, a dynamic object oriented language used as a scripting language for web applications. In addition to the ability of programming new features, the gateway is upgradable to the iDigi platform, which lowers the barriers and costs of remote device connectivity. Using the iDigi platform, the gateway can be configured easily to receive remote firmware updates and to monitor and analyze energy usage data.

Application Highlight



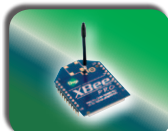
Features/Benefits

- Low-cost gateway operates on European license-free 868 MHz ISM band
- Wireless M-Bus protocol complies with EN13757-4:2005 standards
- Various operating modes (S, T, R) meet requirements for one-way and two-way data communications in stationary and mobile systems
- Supports AES128 data encryption for secure communications
- Facilitates enhanced energy service offerings
- Includes easy-to-use Python[®] development environment for local applications
- Device will be upgradable to support iDigi[™] Energy platform

Related Products



iDigi Solutions



Modules



Adapters



Dev Kits



Cellular Gateways



Sensors



Specifications

ConnectPort® X2 with Wireless M-Bus

General	
Management	HTTP/HTTPS web interface, Password access control, IP service port control
Protocols	UDP/TCP, DHCP, SNMPv1
LEDs	Ethernet status, Power
Security	SSL tunnels
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)
Performance	
RF Data Rate	Up to 66 Kbps
Frequency	868 MHz
Range/Line of Sight	Up to 700 m
Output Power	10 dBm (50 ohms)
Development	
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	5VDC 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 and EN 300220, EN 301489, EN 60950, EN 50371



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