PRELIMINARY

ConnectPort® X2

Ethernet Enabled Wireless M-Bus Gateway

Low-cost gateway operates on the European 868 MHz ISM band and is designed to concentrate the reading of water, gas and electric meters in AMR applications.
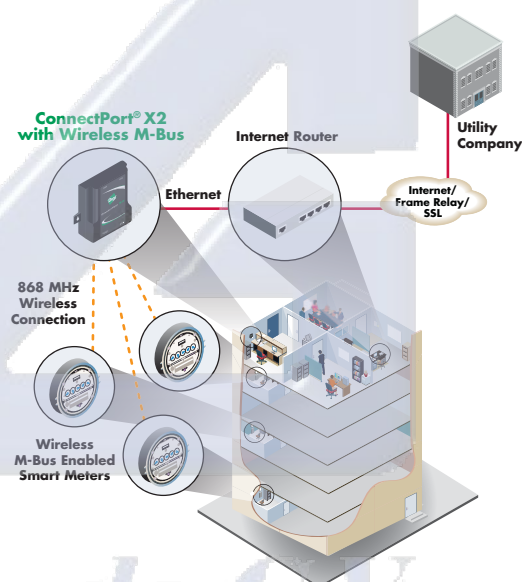
Overview

The ConnectPort X2 with Wireless M-Bus provides utility operators a secure and reliable Internet gateway connection to concentrate the monitoring of Wireless M-Bus enabled utility meters, as well as introduce new customer engagement programs for energy conservation.

The gateway incorporates the Wireless M-Bus standard (EN-13757-4:2005) as well as the OMS (Open Metering Standard) specification, which defines the communications protocol between devices such as water, gas and electricity meters and the concentrators that make their information available to the utilities. The ConnectPort X2 with Wireless M-Bus is an excellent low-cost solution for energy service providers, as well as a platform to service smart grid initiatives in the future.

The Python-programmable gateway is also upgradable to use the iDigi® Device Cloud™, which enables easy firmware updates and is a secure, scalable resource for connecting utility customers with their energy usage data. With iDigi, utilities can develop new relationships with their customers by connecting with them via smartphones as well as energy reporting applications such as Google PowerMeter.

Related Products

iDigi Solutions

Modules

Adapters

Dev Kits

Cellular Gateways

Sensors

Application Highlight

ConnectPort® X2 with Wireless M-Bus

Internet Router

Utility Company

Ethernet

Internet/ Frame Relay/ SSL

868 MHz Wireless Connection
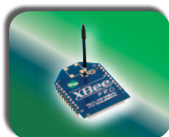
Wireless M-Bus Enabled Smart Meters

Features/Benefits

- **Low-cost gateway operates on European license-free 868 MHz ISM band**
- **Wireless M-Bus protocol complies with EN13757-4:2005 standards**
- **Supports OMS (Open Metering Standard) specification**
- **Supports AES128 data encryption for secure communications**
- **Facilitates enhanced energy service offerings**
- **Includes easy-to-use Python® development environment for local applications**
- **Upgradable to support iDigi Device Cloud**

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Specifications	ConnectPort® X2 with Wireless M-Bus
General	
Management	HTTP/HTTPS web interface, Password access control, IP service port control
Protocols	UDP/TCP, DHCP
LEDs	Ethernet status, Power
Security	AES-128 data encryption
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	2.4 Kbps / 16.384 Kbps / 66.6 Kbps (adjustable)
Frequency	868 MHz
Range/Line of Sight	Up to 30 m
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	0° C to 50° C (32° F to 122° F)
Relative Humidity	5% to 90% (non-condensing)
Ethernet Isolation	1500 VAC min per IEEE802.3/ANSI X3.263
Regulatory Approvals	
Safety	EN60950
Emissions/Immunity	CE and EN 300220, EN 301489, EN 60950, EN 50371, EN 13757-4:2005, AMB 8425-M

Visit www.digi.com for part numbers.

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