ConnectPort® X2
XBe to IP Gateways

Customizable, low-cost Ethernet/Wi-Fi to ZigBee gateways offer easy IP networking of RF devices and sensor networks.

Overview

ConnectPort X2 is a small ZigBee to Ethernet/Wi-Fi gateway that provides low-cost IP networking of RF devices and sensor networks. Featuring an easy development environment, ConnectPort X2 enables custom applications to run locally while interfacing across existing Ethernet/Wi-Fi networks for WAN connectivity to a centralized server.

ConnectPort X2 products feature an end-to-end development environment based on local customization via the iDigi® Dia framework, allowing for rapid M2M-specific application development on the industry standard Python scripting engine. Digi ESP™ provides an IDE featuring device detection, debugging, compiling and downloading of iDigi Dia/Python code to Digi gateways.

Finally, iDigi Manager Pro™, a Digi-hosted remote management service, offers a platform for secure, scalable access to an unlimited number of remote assets. In addition, iDigi web services provides seamless integration from Digi gateways into customer back office applications.

Features/Benefits

- ZigBee to Ethernet/Wi-Fi IP gateways support numerous XBee protocols
- Multiple form factors and configuration options for a wide range of applications
- Commercial and industrial grade enclosures for flexible environments
- Easy development environment via iDigi Dia and Python scripting as part of Digi ESP IDE
- iDigi® Device Cloud™ for secure, scalable access to an unlimited number of remote assets and seamless web services integration from Digi gateways into customer back office applications
## Specifications

### General

- **Management**: HTTP/HTTPS web interface, Password access control, IP service port control, Optional secure enterprise management via iDigi® Device Cloud™
- **Protocols**: UDP/TCP, DHCP, SNMPv1
- **Total Memory**: 8 MB Flash, 16 MB RAM
- **LEDs**: Ethernet status, Power, ZigBee link/activity
- **Security**: SSL tunnels
- **Dimensions (L x W x H) and Weight**:
  - Commercial: 2.75 in x 3.75 in x 1.25 in (7.0 cm x 9.5 cm x 3.2 cm); 0.20 lb (0.09 kg)
  - Industrial: 5.50 in x 2.75 in x 1.13 in (13.9 cm x 7.0 cm x 2.9 cm); 0.44 lb (0.20 kg)

### Antenna

- **XBe® Antenna**: 4” dipole; RP-SMA connector
- **Wi-Fi (optional)**: 4” dipole with 2’ cable, tabletop mountable; RP-SMA connector

### Interfaces

- **RF**: ZigBee, 802.15.4
- **Wi-Fi**: 802.11b/g (industrial version only)
- **Ports**: 1 RJ-45 port
- **Physical Layer**: 10/100Base-T
- **Data Rate**: 10/100 Mbps (auto-sensing)
- **Mode**: Full or half duplex (auto-sensing)

### Wi-Fi (802.11b/g)

- **Frequency**: 2.4 GHz
- **Data Rate**: Up to 11 Mbps w/fallback
- **Modulation**: DBPSK (1 Mbps), DQPSK (2 Mbps), CCK (11,5.5 Mbps)
- **Transmit Power**: 16 dBm typical
- **Receiver Sensitivity**: -82 dBm @ 11 Mbps
- **Modes**: Ad-hoc & AP Client Modes only; Access Point Mode not supported

### Power Requirements

- **Power Input**: 9-30VDC
- **Power Supply**: 12VDC power supply for 0° C to 60° C (32° F to 140° F) with locking barrel connector included; Extended temperature power supply available separately
- **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 A)

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