

# ConnectPort® X Gateways

XBee® to IP Gateway Family

Gateways manage XBee WPANs and provide IP-to-application connectivity with secure cellular, Wi-Fi, WiMAX and Ethernet options.



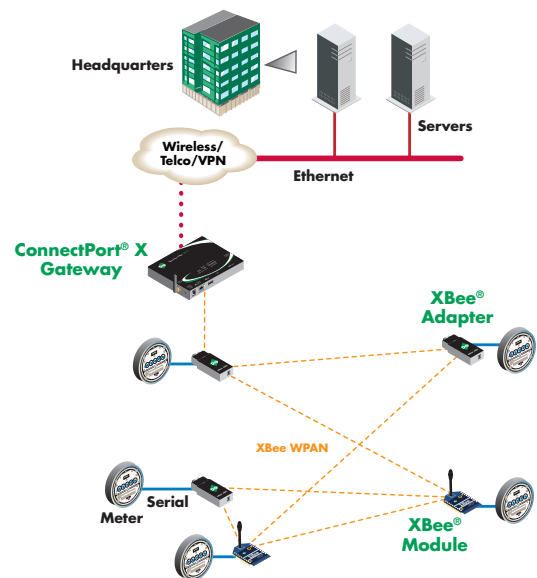
## Overview

ConnectPort X gateways provide IP network connectivity for end point devices in wireless XBee networks. Gateways collect end node data, process it, and send it to a parent application using cellular, WiMAX, Wi-Fi or Ethernet connections. Available in multiple configurations and supporting a wide range of applications, ConnectPort X gateways are ideal for centralized data collection and communication in geographically diverse applications.

The Python® development environment, built into all ConnectPort X gateways, enables users to customize their application locally within the gateway. This easy-to-use universal programming language allows complete control of device connections, data manipulation and event based actions.

ConnectPort X gateways are compatible with XBee adapters, XBee modules and XBee accessories, providing users with unparalleled flexibility and end-to-end communication between devices.

## Application Highlight



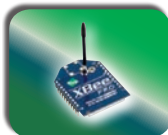
## Features/Benefits

- Cellular, WiMAX, Wi-Fi and Ethernet IP options
- Wireless XBee to IP gateway supports numerous XBee protocols
- Multiple form factors and configuration options for a wide range of applications
- Easy-to-use Python development environment for custom applications
- IPsec and SSL VPNs on WAN connections with DES, 3DES or AES encryption
- 128-bit AES encryption on mesh network
- Enclosed PCIe module to reduce breakage/theft

## Related Products



Device Cloud



Modules



Adapters



Dev Kits



Range Extenders



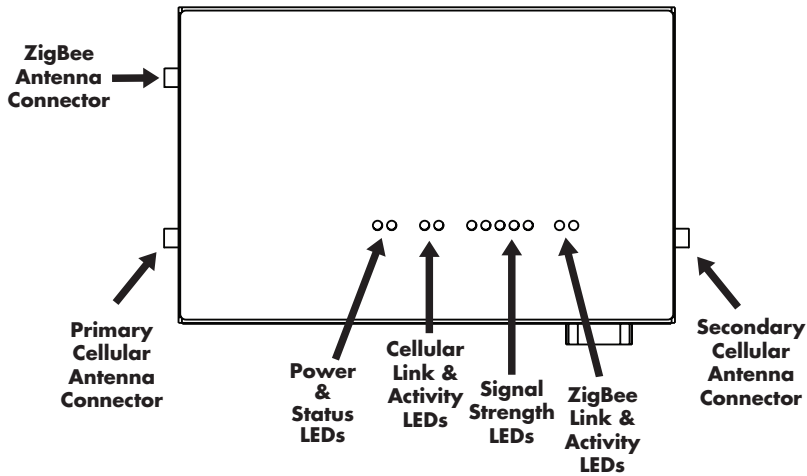
Sensors



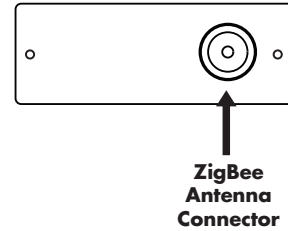
| Specifications         |                                                                                                                                                   | ConnectPort® X4                                                         | ConnectPort® X2 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------|
| General                |                                                                                                                                                   |                                                                         |                 |
| Management             | HTTP/HTTPS web interface, Password access control, IP service port control, Optional secure enterprise management via Device Cloud by Etherios™   |                                                                         |                 |
| Protocols              | UDP/TCP, DHCP, SNMPv1                                                                                                                             |                                                                         |                 |
| LEDs                   | Ethernet status, power, cellular link/activity, signal strength (4 bars), ZigBee link/activity, Wi-Fi link/activity                               | Ethernet status, power, ZigBee link/activity                            |                 |
| Security               | SSL tunnels, SSHv2, FIPS 197 (serial port)                                                                                                        | SSL tunnels                                                             |                 |
| VPN                    | IPsec with IKE/ISAKMP, multiple tunnel support, DES, 3DES and up to 256-bit AES encryption, VPN pass-through, GRE forwarding                      | N/A                                                                     |                 |
| Dimensions (L x W x H) | 5.25 in x 3.35 in x 1.00 in<br>(13.33 cm x 8.50 cm x 2.54 cm)                                                                                     | 5.50 in x 2.75 in x 1.13 in<br>(13.9 cm x 7.0 cm x 2.9 cm)              |                 |
| Weight                 | 0.75 lb (0.34 g)                                                                                                                                  | 0.44 lb (0.20 kg)                                                       |                 |
| Antenna                |                                                                                                                                                   |                                                                         |                 |
| XBee Antenna           | 4” dipole (Ethernet models), 4” dipole with 2’ cable, tabletop mountable (GPRS models); RP-SMA (Center pin - on device: male; on antenna: female) | 4” dipole; RP-SMA<br>(Center pin - on device: male; on antenna: female) |                 |
| Wi-Fi (optional)       | 4" dipole with 2' cable, tabletop mountable; RP-SMA (Center pin - on device: male; on antenna: female)                                            |                                                                         |                 |
| Cellular (optional)    | 7” dipole; SMA<br>(Center pin - on device: female; on antenna: male)                                                                              | N/A                                                                     |                 |
| Interfaces             |                                                                                                                                                   |                                                                         |                 |
| USB                    | 1 powered USB Type A connector (Host)                                                                                                             | N/A                                                                     |                 |
| Cellular               | EV-DO/1xRTT or HSDPA/EDGE/GPRS PCI Express modules (1)                                                                                            | N/A                                                                     |                 |
| WiMax                  | WiMAX (802.16e-2005); 2.3-2.7 GHz (WF3A Profile); Wave2; S-OFDMA MIMO; QPSK, 16 QAM, 64 QAM; 5/10 MHz bandwidth UL/DL                             | N/A                                                                     |                 |
| Serial                 |                                                                                                                                                   |                                                                         |                 |
| Ports                  | 1 RS-232 DB-9M serial port                                                                                                                        | N/A                                                                     |                 |
| Throughput             | Up to 230 Kbps                                                                                                                                    | N/A                                                                     |                 |
| Signal Support         | TXD, RXD, RTS, CTS, DTR, DSR and DCD                                                                                                              | N/A                                                                     |                 |
| 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)                                                                                                                |                                                                         |                 |

| Specifications                                |                                                                                                                                                        | ConnectPort® X4                                   | ConnectPort® X2 |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------|
| Wi-Fi (802.11b/g)                             |                                                                                                                                                        |                                                   |                 |
| Frequency                                     | 2.4 GHz                                                                                                                                                |                                                   |                 |
| Data Rate                                     | Up to 54 Mbps with automatic rate fallback                                                                                                             | Up to 11 Mbps w/fallback                          |                 |
| Modulation                                    | DBPSK (1 Mbps), DQPSK (2 Mbps), CCK (11,5.5 Mbps), BPSK (6,9 Mbps), QPSK (12,18 Mbps), 16-QAM (24,36 Mbps), 64-QAM (48, 54 Mbps)                       | DBPSK (1 Mbps), DQPSK (2 Mbps), CCK (11,5.5 Mbps) |                 |
| Transmit Power                                | 15 dBm ± 2 dBm                                                                                                                                         | 16 dBm typical                                    |                 |
| Receiver Sensitivity                          | -71 dBm @ 54 Mbps; -81 dBm @ 11 Mbps; -88 dBm @ 6 Mbps; -93 dBm @ 1 Mbps                                                                               | -82 dBm @ 11 Mbps                                 |                 |
| Connector                                     | 1 x RP-SMA (Center pin - on device: male; on antenna: female)                                                                                          |                                                   |                 |
| Modes                                         | Ad-hoc & AP Client Modes only; Access Point Mode not supported                                                                                         |                                                   |                 |
| Power Requirements                            |                                                                                                                                                        |                                                   |                 |
| Power Input                                   | 6-30 VDC                                                                                                                                               | 9-30 VDC                                          |                 |
| Power Supply                                  | 12 VDC 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: 1.5 W, Max: 10.4 W                                                                                                                               | 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                            | 1500 VAC min per IEEE802.3/ANSI X3.263                                                                                                                 |                                                   |                 |
| Serial Port Protection (ESD)                  | +15 kV Air Gap and +8 kV contact discharge per IEC 1000-4-2                                                                                            | N/A                                               |                 |
| Regulatory Approvals                          |                                                                                                                                                        |                                                   |                 |
| Safety                                        | UL 60950, CSA 22.2 No. 60950, EN60950                                                                                                                  | EN60950                                           |                 |
| Emissions/Immunity                            | CE, FCC Part 15 (Class A), AS/NZS CISPR 22, EN55024, EN55022, Class A                                                                                  | CE, FCC Part 15 (Class A)                         |                 |
| Mobile Certifications - CDMA/EV-DO            | CDG, TIA/EIA-690, TIA/EIA-98-E                                                                                                                         | N/A                                               |                 |
| Mobile Certifications - GSM/UMTS              | PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511                                                                                                             | N/A                                               |                 |

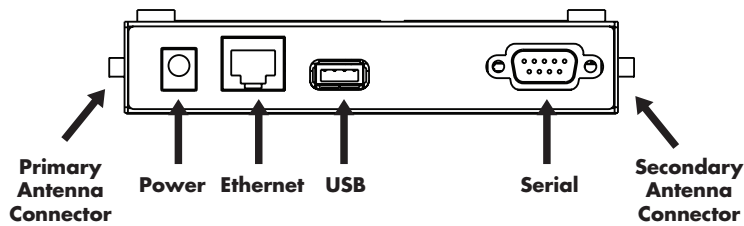
ConnectPort X4 - Top



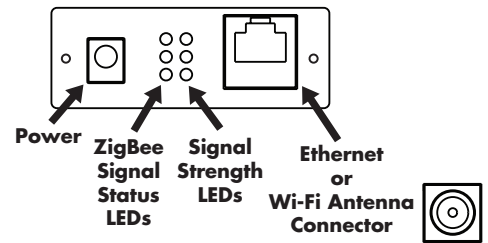
ConnectPort X2 - Side



ConnectPort X4 - Front



ConnectPort X2 - Side



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[info@digi.com](mailto:info@digi.com)





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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.