ConnectPort® X3/X3 H

Programmable Remote Device Cellular Gateways

Programmable gateways aggregate local traffic from devices or sensors over a cellular network for asset management applications.

Overview

The ConnectPort X3 gateway delivers a powerful yet cost-effective asset management solution by combining a programmable gateway with an easy-to-use development environment and iDigi™ management platform. The ConnectPort X3 can be programmed using open source Python or the iDigi Device Integration Application (iDigi Dia). Digi also provides application developers with a familiar Eclipse-based Integrated Development Environment for rapid application development.

An embedded XBee® module provides a low-power wireless connection to a small network of other ZigBee-enabled devices (e.g., a collection of sensors). The optional analog I/O, digital I/O or RS-232 serial port offers a direct wired connectivity option. The ConnectPort X3 also provides optional internal GPS for location services.

The ConnectPort X3 gateway is available in a rugged NEMA 4X/IP66 enclosure (X3 H model) with multiple power options including mains powered, battery powered and optional solar charging panel.

Features/Benefits

• **Global cellular coverage with GSM/GPRS module**

• **Support for XBee/ZigBee device networks**

• **Analog I/O, digital I/O, RS-232 serial and GPS options**

• **iDigi Dia reduces development time by up to 90% using familiar Eclipse-based development environment**

• **Hosted iDigi management and monitoring platform provides secure, economical, scalable deployments**

• **NEMA 4X/IP66 enclosure options for outdoor environments**

• **Advanced power management and battery options with optional solar charging panel**

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Specifications

	ConnectPort® X3	ConnectPort® X3 H
General		
Management Platform	iDigi™	
Software	Python, iDigi, iDigi Dia, Digi ESP™ development environment	
Available Memory	RAM free (without iDigi Dia): ~8 MB; RAM free (with iDigi Dia): ~5 MB; File space free: ~4 MB	
Protocols	UDP/TCP, DHCP	
LEDs	Power, Status, Cellular link/activity, Signal strength (5 bars), XBee link/activity, GPS (optional)***	
Dimensions (L x W x H) and Weight	3.29 in x 4.75 in x 0.95 in (8.36 cm x 12.07 cm x 2.41 cm) 0.75 lb (0.34 kg)	9.44 in x 7.30 in x 3.59 in (23.98 cm x 18.54 cm x 9.12 cm) 3.35 lbs (1.52 kg)
Interfaces		
Serial*	1 RS-232 DB-9M with 115.2 Kbps throughput; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD	
USB	Single USB Type B connector (device)	
Cellular	GSM/GPRS	
XBee (Low-Power RF)*	XBee-PRO® ZB module (5 node network limit)	
I/O*	2 analog, 2 digital	
GPS	Optional (u-blox LEA-5s module)	
Antenna:		
ZigBee/802.15.4	4" dipole with 2' cable, tabletop mountable, 50 Ω SMA female	
Cellular	2" dipole, direct-mount, 50 Ω SMA male	
GPS	External	
Power Requirements		
Power Options	AC	AC, Battery, Battery/Solar
Input Voltage	9-30V (1.75A at 12VDC)	AC and Battery/Solar units 9-30V (1.75A at 12VDC); Battery units
Sleep Mode	Optional	AC units = No, Battery and Battery/Solar units = Yes
Environmental		
Enclosure	Commercial	NEMA 4X/IP66 or NEMA 4X/IP66 with Display
Class 1, Div 2	No	Optional
Ethernet Isolation	-35° C to +70° C	-35° C to +60° C**
Relative Humidity	5% to 95% (non-condensing)	
Regulatory Approvals		
Safety	UL 60950, CSA 22.2 No. 60950, EN60950	
EMC	CE, FCC Part 15 (Class A), AS/NZS CISPR 22, EN55024, EN55022, Class A	
Mobile Certifications	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN301 511	

* Serial & I/O are model-dependent. Choose from **I/O + XBee**, **RS-232 + XBee**, or **XBee only** models. **|** ** Solar variant may req -20° to +50° C for optimal performance. **|** *** Avail on X3 and X3 H w/