ConnectPort® X4 Family

Customizable Commercial-Grade 2G/3G Routing Gateways

Remote M2M device networking gateways designed for commercial grade and rugged outdoor applications.
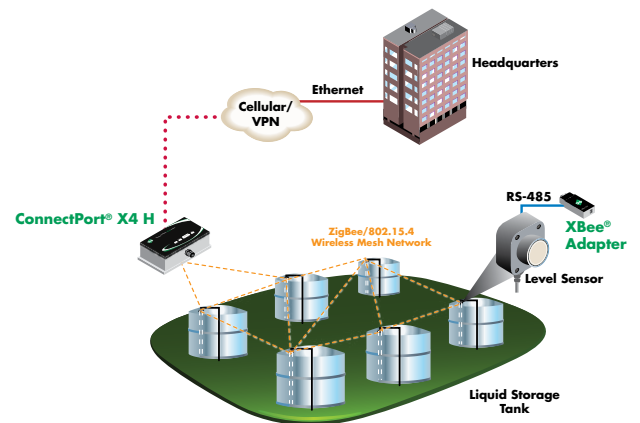
Overview

ConnectPort X4 customizable 2G/3G cellular M2M routing gateways offer a variety of LAN/WAN interface options for end-to-end networking of remote devices. The gateways include comprehensive IP protocols and IPSec VPN support for high-end routing and security. The easy DIA/Python development environment enables custom applications to run locally while interfacing across cellular networks for WAN connectivity to a centralized server.

ConnectPort X4 gateways feature a compact commercial grade enclosure or an optional outdoors IP66/NEMA 4X enclosure with Class 1, Division 2 rating for more rugged applications. Interface options include Ethernet, serial and ZigBee/RF for flexible connectivity to virtually any remote device.

All ConnectPort X gateways feature an end-to-end development environment using comprehensive Digi ESP™ IDE and DIA/Python programming languages. Digi Device Cloud add secure, scalable cloud based management and web services integration for a complete remote asset platform.

Related Products and Services

Digi Remote Manager	Dev Kits	Adapters
Network Extenders	Sensors	Digi ESP

Application Highlight

Headquarters
Ethernet
Cellular/VPN
ConnectPort® X4 H
RS-485
XBee® Adapter
ZigBee/802.15.4 Wireless Mesh Network
Level Sensor
Liquid Storage Tank

Features/Benefits

- **WAN connectivity via 2G/3G GSM/CDMA networks**
- **Flexible interfaces: ZigBee/802.15.4, software selectable RS-232/422/485 serial and USB and 2 AIO/2 DIO**
- **Small commercial grade enclosure or NEMA 4X/IP66 case with Class 1, Division 2 certifications**
- **Full routing/IP filtering plus IPsec/SSL VPNs with DES, 3DES or AES encryption**
- **Easy development environment via DIA and Python scripting as part of Digi ESP IDE**
- **Support for Modbus/Modbus TCP**
- **Digi Device Cloud support for secure, scalable access to an unlimited number of remote assets**

Specifications	ConnectPort® X4	ConnectPort® X4 IA	ConnectPort® X4 H
Wireless Interfaces			
WWAN**			
HSPA+ (U9)	850/900/1700 (AWS)/1900/2100 MHz; Transfer Rate (max): 5.76 Mbps up, 21 Mbps down		
Edge (E1)	GPRS/EDGE Class 10; 850/900/1800/1900 MHz; Transfer rate (max): 236 Kbps up/down		
CDMA 1xRTT (Bx)	800/1900 MHz; Transfer rate (max): 153 Kbps up/down		
Connector	1 or 2 x SMA (Center pin - on device: female; on antenna: male)		1 x SMA (Center pin - on device: female; on antenna: male)
SIM Slots	2 or 0 (CDMA varients)		1
SIM Security	SIM slot cover plate		Internal SIM slot
RF			
Standard	ZigBee (2.4 GHz), DigiMesh (2.4 GHz or 900 MHz), XBee-PRO 900HP, 802.15.4 or 868		
Connector	1 x RP-SMA (Center pin - on device: male; on antenna: female		
Other			
Satellite	N/A		
GPS	N/A		
Wi-Fi	N/A		
Wired Interfaces			
Serial			
Ports	1		
Standard	RS-232	RS-232/422/485 (Software selectable)	
DTE/DCE	DTE		
Signal Support	TXD, RXD, RTS, CTS, DTR, DSR and DCD		
Flow Control	Hardware and software flow control		
COM Port Redirector	RealPort®		
Throughput	Up to 230 Kbps		
Connector	DB9 Male		Screw-down terminal block
Ethernet			
Ports	1		
Standard	IEEE 802.3		
Physical Layer	10/100Base-T		
Data Rate	10/100 Mbps (auto-sensing)		
Mode	Full or Half duplex (auto-sensing)		
Interface	Auto MDI/MDIX		
Connector	RJ-45		
I/O			
Ports	N/A		2 analog and 2 digital
Connector	N/A		Screw-down terminal block
USB			
Ports	1		
Standard	USB 1.1		
Signaling	Full-speed		
Connector	Type A		
Other			
Sensor	N/A	1 sensor port for use with Watchport® sensors	N/A
Software/Management			
Management (Cloud-based)	Digi Device Cloud		
Management (Local)	Web Interface via HTTP/HTTPS, Password access control, IP service port control; CLI via serial port, Telnet, Python scripting; Digi SureLink™ "always-on" connection		
Security	SSL tunnels, SSHv2, FIPS 197 (IPsec, HTTPS)		

Specifications	ConnectPort® X4	ConnectPort® X4 IA	ConnectPort® X4 H
Software/Management (continued)			
Network Protocols	UDP/TCP, DHCP, SNMPv1/v2		
VPN	IPsec with IKE/ISAKMP; Multiple tunnel support; DES, 3DES and up to 256-bit AES encryption; VPN pass-through, GRE forwarding; Simple Certificate Enrollment Protocol (SCEP) for X.509 certificate		
Routing	NAT, NAT-T (NAT traversal) VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP filtering), IP pass-through, Virtual Router Redundancy Protocol (VRRP) per RFC 3768		
Industrial Protocol Support	Modbus bridge enables Modbus serial to Modbus/TCP conversion; Integrated Python code allows gateway to act as Modbus client/master or Modbus server/slave; Functions like an Ethernet to serial bridge, but uses XBee to transport serial data; Handles unique timing issues per Modbus protocol rules; Uses Modbus Unit ID to look up IP or mesh MAC address.		
Real-Time Clock	Yes		
Memory	16 MB Flash, 32 MB RAM		
Power			
Input	6-30 VDC		100-240 VAC
Consumption	Idle: 1.5 W, Max: 10.4 W		Approx. 15 W
Protection	4 kV burst (EFT) per-4-4, 2 kV surge per EN61000-4		2 kV burst (EFT) (with included power supply)
Connector	Locking barrel	Compression terminal block	Pigtail AC power cord
DC Power Cord*	Available upon request	N/A	N/A
AC Power Supply*	12 VDC power supply for 0º C to 40º C (32º F to 104º F) included; Extended temperature power supply available separately	N/A	Internal
Battery Backup	N/A		
Physical			
Dimensions (L x W x H)	5.25 in x 3.35 in x 1.00 in (13.33 cm x 8.50 cm x 2.54 cm)		9.50 in x 6.25 in x 3.75 in (240 mm x 160 mm x 95 mm)
Weight	0.44 lb (0.20 kg)		3.10 lb (1.41 kg)
Status LEDs	Ethernet status, Power, Cellular link/activity, Signal strength (4 bars), XBee link/activity		Ethernet status, Power, Cellular link/activity, Signal strength (5 bars), XBee link/activity
Enclosure Material	Industrial (metal)		NEMA 4X
Enclosure Rating	N/A		IP66
Mounting	Wall-mount bracket sold separately	DIN rail bracket included	4x mounting feet on the unit's flange
Environmental			
Operating Temperature ***	-30º C to +75º C (-22 F to +167 F)		
Storage Temperature	-40 to +85C		
Relative Humidity	5% to 95% (non-condensing)		N/A (enclosure is water-tight)
Ethernet Isolation	1500VAC min per IEEE 802.3/ANSI X3.263		
Serial Port Protection (ESD)	+15 kV Air Gap and +8 kV contact discharge per IEC 1000-4-2		
Hazardous (Class 1 Div 2)	No	Yes	No
Conformal Coating	N/A		
Approvals			
GSM/UMTS	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511		
CDMA/EV-DO	CDG, TIA/EIA-690, TIA/EIA-98-E		
Cellular Carriers	Certified by most major carriers. See www.digi.com for current listing.		
Safety	UL 60950, CSA 22.2 No. 60950, EN60950; Class 1 Div 2 (IA model only)		
Emissions/Immunity	CE, FCC Part 15 (Class A), AS/NZS CISPR 22, EN55024, EN55022, Class A		
Warranty			
Product Warranty	5 years		

* Optional hardware ** Transfer rates are network operator dependent *** Reduced cellular performance may occur above +60° C. Standard Temperature power supplies may reduce temperature range.

You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit www.digi.com/support

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