ConnectPort[®] X4 Family

Customizable Commercial-Grade 3G/4G Routing Gateways

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

Overview

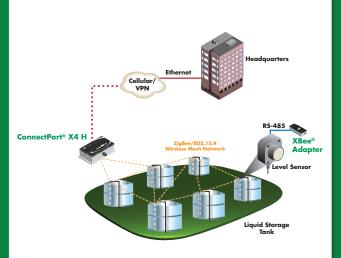
ConnectPort X4 customizable 2G/3G/4G Gobi cellular/ WiMAX M2M routing gateways offer a variety of LAN/WAN interface options for end-to-end networking of remote devices. The gateways include comprehensive IP protocols and IPSec VPN support for high-end routing and security. The easy DIA/ Python development environment enables custom applications to run locally while interfacing across cellular/WiMAX 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. Device Cloud by Etherios[™] add secure, scalable cloud based management and web services integration for a complete remote asset platform.







Features/Benefits

- WAN connectivity via 2G/3G/4G Gobi GSM/CDMA/ WiMAX networks
- Flexible interfaces: ZigBee/802.15.4, software selectable RS-232/422/485 serial and USB with optional Wi-Fi 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
- Device Cloud support for secure, scalable access to an unlimited number of remote assets

www.digi.com

Specifications	ConnectPort® X4	ConnectPort [®] X4 IA	ConnectPort [®] X4 H			
Wireless Interfaces						
WWAN**						
GSM/CDMA Gobi HSPA+ (U8)	HSPA+/EV-D0 800/850/900/1700 (AWS)/1900/2100 MHz Gobi with Rx Diversity					
Edge (E1)	GPRS/Edge 850/900/1800/1900 MHz					
CDMA 1xRTT (Bx)	1xRTT 800/1900 MHz					
WiMAX (Yx)	WiMAX (802.16e-2005); 2.3-2.7 GHz (WF3A Profile 5/10 MHz bar	N/A				
Connector	1 or 2 × SMA (Center pin - on de	1 x SMA (Center pin - on device: female; on antenna: male)				
SIM Slots	2 or 0 (CDM	1A varients)	1			
SIM Security	SIM slot c	cover plate	Internal SIM slot			
RF						
Standard	ZigBee	ZigBee (2.4 GHz), DigiMesh (2.4 GHz or 900 MHz), 802.15.4 or 868				
Connector	1 x RP-SMA (Center pin - on device: male; on antenna: female					
Wi-Fi						
Standard	802.1	N/A				
Modes	Ad-hoc & AP Client Modes; Ac	N/A				
Connector	1 x RP-SMA (Center pin - on de	N/A				
Other						
Satellite	N/A					
GPS	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	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					
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RJ-45

Connector

Specifications	ConnectPort® X4	ConnectPort® X4 IA	ConnectPort® X4 H				
Wired Interfaces (Continued)							
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	Туре А						
Other							
Sensor	N/A 1 sensor port for use with Watchport® sensors		N/A				
Software/Management	Software/Management						
Management (Cloud-based)	Device Cloud by Etherios						
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)						
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	100-240 VAC					
Consumption	Idle: 1.5 W,	Approx. 15 W					
Protection	4 kV burst (EFT) per-4-4,	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 0° C to 40° C (32° F to 104° F) included; Extended temperature power supply available separately	N/A	Internal				
Battery Backup	N/A						

Specifications	ConnectPort [®] X4	ConnectPort® X4 IA	ConnectPort® X4 H		
Physical					
Dimensions (L x W x H)	5.25 in x 3.35 in x 1.00 in (1	9.50 in x 6.25 in x 3.75 in (240 mm x 160 mm x 95 mm)			
Weight	0.44 lb	3.10 lb (1.41 kg)			
Status LEDs	Ethernet status, Power, Cellular lin XBee link/activity	Ethernet status, Power, Cellular link/activity, Signal strength (5 bars), XBee link/activity			
Enclosure Material	Industri	NEMA 4X			
Enclosure Rating	Ν	IP66			
Mounting	Wall-mount bracket sold separately DIN rail bracket included		4x mounting feet on the unit's flange		
Environmental					
Operating Temperature ***	-30° C to +75° C (-22 F to +167 F)				
Storage Temperature	-40 t				
Relative Humidity	5% to 95% (n	N/A (enclosure is water-tight)			
Ethernet Isolation	1500VAC min per IEEE 802.3/ANSI X3.263				
Serial Port Protection (ESD)	+15	00-4-2			
Hazardous (Class 1 Div 2)	No	No Yes			
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.

Visit www.digi.com for part numbers.

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