

CUSTOMIZABLE COMMERCIAL-GRADE CELLULAR GATEWAYS



## **DIGI CONNECTPORT X4 FAMILY**

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

ConnectPort® X4 customizable cellular M2M 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.

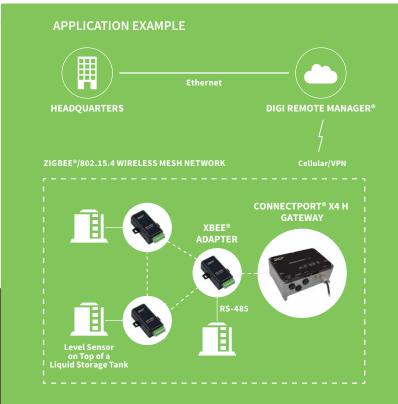
Interface options include Ethernet, serial and ZigBee/RF for flexible connectivity to virtually any remote device.

All ConnectPort X4 gateways feature an end-to-end development environment using comprehensive Digi ESP™ IDE and DIA/Python programming languages. Digi Remote Manager® add secure, scalable cloud based management and web services integration for a complete remote asset platform.

## **BENEFITS**

- WAN connectivity via LTE or 3G HSPA+ Networks
- Local wireless connectivity through Zigbee/802.15.4
- Local wired connectivity through RS-232/422/485,
   2 Analog inputs and 2 Digital Inputs
- Small commercial grade enclosure or NEMA 4X/IP66 case
- 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 Remote Manager® support for secure, scalable access to an unlimited number of remote assets

## RELATED PRODUCTS Digi TransPort\* Digi TransPort\* Digi Connect\* Digi Connect\* Manager\* Digi Connect\* Digi Connect\* Manager\*



SPECIFICATIONS	ConnectPort® X4	ConnectPort® X4 IA	ConnectPort® X4 H
WIRELESS INTERFACES			
WWAN**			
LTE CAT 1	N/A	N/A	Verizon: Bands 2,4,14 AT&T & T-Mobile: Bands 2,4,5 with 3G/2G Fallback
HSPA+ (U9)	850/900/1700 (AWS)/1900/2100 MHz; Transfer ra	te (max): 5.76 Mbps up, 21 Mbps 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 or 2 x SMA (Center pin - on device female; on antenna: male)		1 or 2 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), Digi XBee-PRO® 900HP, 802.15.4 or 868		
CONNECTOR	1 x RP-SMA (Center pin - on device: male; on antenna: female		
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			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		
SOFTWARE/MANAGEMENT			
MANAGEMENT (CLOUD-BASED)	Digi Remote Manager®		
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 (CONTINU	JED)		
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 Digi 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 0° C to 40° C (32° F to 104° 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), Digi XBee link/activity		Ethernet status, Power, Cellular link/ activity, Signal strength (5 bars), Digi 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 ***	-30° C to +75° C (-22 F to +167 F)		
STORAGE TEMPERATURE			
	-40 to +85C		
RELATIVE HUMIDITY	5% to 95% (non-condensing)  N/A (enclosure is water-tight)		MA (enclosure is water-tight)
SERIAL PORT PROTECTION	1500 VAC min per IEEE 802.3/ANSI X3.263 +15 kV Air Gap and +8 kV contact discharge per IEC 1000-4-2		
(ESD)	No		No
HAZARDOUS (CLASS 1 DIV 2)	NO	Yes	IVO
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	3 years + Digi Foundations****		
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<sup>\*\*\*</sup>Reduced cellular performance may occur above +60° C. Standard Temperature power supplies may reduce temperature range.

\*\*\*\*Digi Foundations can extend the standard three-year warranty to a Limited Lifetime Warranty that provides replacement with a new or similar Digi product for a period of five years from the data of purchase.

After five years from the purchase date, the warranty value will revert to a 40 percent credit towards the MSRP of an equivalent product from Digi.



<sup>\*</sup>Optional hardware
\*\*Transfer rates are network operator dependent

PART NUMBERS	DESCRIPTION	
ConnectPort X4 H - ZIGBEE		
X4H-Z1U-L301-US	ConnectPort X4H -Digi XBee Zigbee to Ethernet & Cellular (LTE)	
X4H-Z1U-B101-US	ConnectPort X4 H - Digi XBee ZigBee S2B to Ethernet & Cellular (1xRTT Sprint)	
ConnectPort X4 - ZigBee		
X4-Z11-E-A	ConnectPort X4 - Digi XBee ZigBee to Ethernet	
X4-Z11-E-W	ConnectPort X4 - Digi XBee ZigBee to Ethernet (International)	
X4-Z1J-U901-W	ConnectPort X4 - Digi XBee ZigBee to Ethernet & Cellular (HSPA+) (International)	
X4-Z1U-U901-A	ConnectPort X4 - Digi XBee ZigBee to Ethernet & Cellular (HSPA+)	
ConnectPort X4 - DigiMesh 2.4 GHZ		
X4-M11-U901-A	ConnectPort X4-Digi XBee (Digi Mesh 2.4GHS) to Ethernet & Cellular (HSPA+)	
X4-M11-U901-W	ConnectPort X4 - Digi XBee (DigiMesh 2.4 GHz) to Ethernet & Cellular (HSPA+) (International)	
ConnectPort X4 - 900 MHZ		
X4-HMU-B201-A	ConnectPort X4 - Digi XBee (Digi XBee-PRO 900HP) to Ethernet & Cellular (1xRTT Verizon)	
X4-HMU-E-A	ConnectPort X4 - Digi XBee (Digi XBee-PRO 900HP) to Ethernet	
X4-HMU-U901-A	ConnectPort X4 - Digi XBee (Digi XBee-PRO 900HP) to Ethernet & Cellular (HSPA+)	
ConnectPort X4 IA - ZigBee		
X4-Z1J-U905	ConnectPort X4 IA - Digi XBee ZigBee to Ethernet & Cellular (HSPA+) (International)	
X4-Z1U-U905	ConnectPort X4 IA - Digi XBee ZigBee to Ethernet & Cellular (HSPA+)	
ConnectPort X4 IA - 802.15.4		
X4-A1J-U905	ConnectPort X4 IA - Digi XBee (802.15.4) to Ethernet & Cellular (HSPA+) (International)	
X4-A1U-U905	ConnectPort X4 IA - Digi XBee (802.15.4) to Ethernet & Cellular (HSPA+)	

PART NUMBERS	DIGI FOUNDATIONS ADD-ONS
DGF-BDL-PREM-1YR	Digi Foundations add-on bundle 1 year
DGF-BDL-PREM-3YR	Digi Foundations add-on bundle 3 years
DGF-BDL-PREM-5YR	Digi Foundations add-on bundle 5 years

**DIGI SERVICE AND SUPPORT** / 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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