Manage this device with Digi Remote Manager

DIGI CONNECTPORT X4 FAMILY

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

Digi 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 Digi ConnectPort X4 gateways feature an end-to-end development environment using comprehensive Digi ESP™ IDE and DIA/Python programming languages. Gain critical insights into your deployed devices and manage your network with **Digi Remote Manager**®. Digi Remote Manager (Digi RM) is a cloud-based solution that facilitates easy setup, mass configuration, maintenance and support for hundreds or even thousands of remote Digi devices.
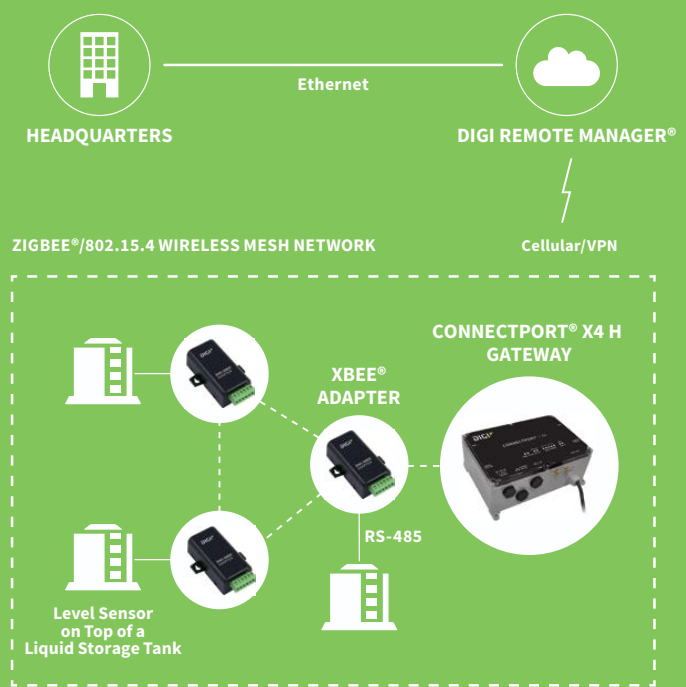
BENEFITS

– 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** platform for easy setup, mass configuration and management

APPLICATION EXAMPLE

HEADQUARTERS — Ethernet — DIGI REMOTE MANAGER®

ZIGBEE®/802.15.4 WIRELESS MESH NETWORK

Cellular/VPN

CONNECTPORT® X4 H GATEWAY

XBEE® ADAPTER

RS-485

Level Sensor on Top of a Liquid Storage Tank

RELATED PRODUCTS

Digi WR21   Digi WR31   Digi Connect® Sensor   Digi Connect® Tank   Digi Remote Manager®

SPECIFICATIONS	CONNECTPORT® X4	CONNECTPORT® X4 H
WIRELESS INTERFACES		
WWAN		
LTE CAT 1	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 rate (max): 5.76 Mbps up, 21 Mbps 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)
SIM SLOTS	2	1
SIM SECURITY	SIM slot cover plate	Internal SIM slot
RF		
STANDARD	Zigbee (2.4 GHz) / 802.15.4	
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	DB-9 Male	Screw-down terminal block
ETHERNET		
PORTS	1	
STANDARD	IEEE 802.3	
PHYSICAL LAYER	10/100 Base-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 H

SOFTWARE/MANAGEMENT (CONTINUED)

	CONNECTPORT® X4	CONNECTPORT® X4 H
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

	CONNECTPORT® X4	CONNECTPORT® X4 H
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	Pigtail AC power cord
DC POWER CORD*	Available upon request	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	Internal
BATTERY BACKUP	N/A	

PHYSICAL

	CONNECTPORT® X4	CONNECTPORT® X4 H
DIMENSIONS (L X W X H)	13.33 cm x 8.50 cm x 2.54 cm (5.25 in x 3.35 in x 1.00 in)	240 mm x 160 mm x 95 mm (9.50 in x 6.25 in x 3.75 in)
WEIGHT	0.20 kg (0.44 lb)	1.41 kg (3.10 lb)
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	4x mounting feet on the unit's flange

ENVIRONMENTAL

	CONNECTPORT® X4	CONNECTPORT® X4 H
OPERATING TEMPERATURE ***	-30º C to 75º C (-22º F to 167º F)	
STORAGE TEMPERATURE	-40 to 85C (-40º F to 185º F)	
RELATIVE HUMIDITY	5% to 95% (non-condensing)	N/A (enclosure is water-tight)
ETHERNET ISOLATION	1500 VAC 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	No

APPROVALS

	CONNECTPORT® X4	CONNECTPORT® X4 H
GSM/UMTS	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511	
CELLULAR CARRIERS	Certified by most major carriers. see www.digi.com for current listing	
SAFETY	UL 60950, CSA 22.2 No. 60950, EN62368; Class 1 Div 2 (IA model only)	
EMISSIONS/IMMUNITY	CE, FCC Part 15 (Class A), AS/NZS CISPR 22, EN55024, Class A	

WARRANTY

	CONNECTPORT® X4	CONNECTPORT® X4 H
PRODUCT WARRANTY	3-year	

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

DIGI REMOTE MANAGER®

Digi Remote Manager is the technology platform that brings networks to the next level, allowing networks — and the people who manage them — to work smarter. With Digi Remote Manager you can transform a multitude of dispersed IoT devices into a dynamic, intelligent network. Now you can easily deploy, monitor and diagnose thousands of mission-critical devices from a single point of command — on your desktop, tablet or phone. All the while, its software-defined security diligently safeguards your entire Digi ecosystem.

Learn more at **www.digi.com/digi-remote-manager**

CAPABILITIES

– Activate, monitor and diagnose your mission-critical devices from a single point of command and control — on your desktop or mobile app

– Schedule key operations — including firmware updates and file management — on a single device or on a group of devices, keeping your network functionality up-to-date and maintaining compliance standards

– Manage edge devices out-of-band via console terminal access

– Keep tabs on device health and connectvity across device deployments of any size

– Create detailed reports and enable real-time alerts for specified conditions

– Integrate device data through open APIs to gain deeper insights and control with third-party applications

– Report and alert on performance statistics, including connection history, signal quality, latency, data usage and packet loss

INFRASTRUCTURE

– Hosted in a commercial-grade cloud server environment that meets SOC 1®, SOC 2® and SOC 3® standards

– Superior availability, operating to 99.9% or greater

– Open APIs available to support application development

SECURITY

– More than 175 security controls in place to protect your data

– Member of the Center for Internet Security® (CIS®)

– Enables compliance with security frameworks like ISO27002, HIPAA, NIST and more

– Earned Skyhigh's CloudTrust™ Program highest rating of Enterprise-Ready

PART NUMBERS	DESCRIPTION
ConnectPort X4 H - Zigbee	
X4H-Z1U-L301-US	ConnectPort X4 H -Digi XBee Zigbee to Ethernet & cellular (LTE)
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)

PART NUMBERS	DIGI REMOTE MANAGER®
DIGI-RM-STD-1YR	Digi Remote Manager Standard - 1-year subscription
DIGI-RM-PRM-1YR	Digi Remote Manager Premier - 1-year subscription
DIGI-RM-PRM-3YR	Digi Remote Manager Premier - 3-year subscription
DIGI-RM-PRM-5YR	Digi Remote Manager Premier - 5-year subscription