

Specifications	ConnectPort® X4
<b>Features</b>	
<b>Enclosure</b>	Commercial grade metal enclosure
<b>Network Protocols</b>	UDP/TCP, DHCP, SNMPv1/v2
<b>LEDs</b>	Ethernet status, power, cellular link/activity, signal strength (4 bars), ZigBee link/activity, Wi-Fi link/activity
<b>Security</b>	SSL tunnels, SSHv2, FIPS 197 (IPsec, HTTPS)
<b>Real-Time Clock</b>	Yes
<b>Routing Features</b>	NAT, Port forwarding, Access control lists (IP filtering)
<b>VPN</b>	IPsec with IKE/ISAKMP; Multiple tunnel support; DES, 3DES and up to 256-bit AES encryption; VPN pass-through, GRE forwarding
<b>Management</b>	HTTP/HTTPS web interface, Password access control, IP service port control, Optional secure enterprise management via iDigi®
<b>Memory</b>	16 MB Flash, 32 MB RAM
<b>Industrial Protocol Support</b>	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 ZigBee to transport serial data; Handles unique timing issues per Modbus protocol rules Uses Modbus Unit ID to look up IP or mesh MAC address
<b>Antenna Types</b>	XBee®: 4" dipole (Ethernet models), 4" dipole with 2' cable, tabletop mountable (Edge models); Wi-Fi (optional): 4" dipole with 2' cable, tabletop mountable; Cellular (optional): 7" dipole
<b>Antenna Connector Type</b>	Wi-Fi: 1 x RP-SMA (Center pin - on device: male; on antenna: female); XBee 1 x RP-SMA (Center pin - on device: male; on antenna: female); Cellular: 1 or 2 x SMA (Center pin - on device: female; on antenna: male)
<b>Dimensions (L x W x H) &amp; Weight</b>	5.25 in x 3.35 in x 1.00 in (13.33 cm x 8.50 cm x 2.54 cm) 0.44 lb (0.20 kg)
<b>Power Requirements</b>	
<b>Power Input Rating</b>	6-30 VDC
<b>Power Consumption</b>	Idle: 1.5 W, Max: 10.4 W
<b>Surge Protection</b>	4 kV burst (EFT) per-4-4, 2 kV surge per EN61000-4
<b>External Power Supply</b>	12 VDC power supply for 0° C to 60° C (32° F to 140° F) with locking barrel connector included; Extended temperature power supply available separately

<b>Interfaces</b>	
<b>Serial</b>	1 RS-232 DB-9M serial port; Throughput up to 230 Kbps; Full signal support for TXD, RXD, RTS, CTS, DTR, DSR and DCD; Hardware and software flow control
<b>USB</b>	1 powered USB Type A connector (Host)
<b>I/O</b>	N/A
<b>Ethernet</b>	1 RJ-45 port; Standard: IEEE 802.3; Physical Layer: 10/100Base-T; Data rate: 10/100 Mbps (auto-sensing); Mode: full or half duplex (auto-sensing)
<b>RF</b>	Available in ZigBee (2.4 GHz), DigiMesh (2.4 GHz or 900 MHz), 802.15.4, 900, 868
<b>Cellular</b>	GSM: Edge 850/900/1800/1900 MHz CDMA: 1XRTT 800/1900 MHz 3G/4G GSM: HSPA+ 850/900/1900/2100 MHz with Rx Diversity 3G/4G GSM/3G CDMA: HSPA+/EV-DO 800/850/900/1700 (AWS)/1900/2100 MHz Gobi with Rx Diversity
<b>WiMAX</b>	WiMAX (802.16e-2005); 2.3-2.7 GHz (WF3A Profile); Wave2; S-OFDMA MIMO; QPSK, 16 QAM, 64 QAM; 5/10 MHz bandwidth UL/DL
<b>Wi-Fi</b>	Modes: Ad-hoc & AP Client Modes; Access Point Mode not supported
<b>Environmental</b>	
<b>Operating Temperature</b>	-30° C to +75° C (-22 F to +167 F) Reduced cellular performance may occur above 65° C (depending on module)
<b>Relative Humidity</b>	5% to 95% (non-condensing)
<b>Ethernet Isolation</b>	1500VAC min per IEEE 802.3/ANSI X3.263
<b>Serial Port Protection (ESD)</b>	+15 kV Air Gap and +8 kV contact discharge per IEC 1000-4-2
<b>Regulatory Approvals</b>	
<b>Safety</b>	UL 60950, CSA 22.2 No. 60950, EN60950; Class 1 Div 2 (IA model only)
<b>Emissions/Immunity</b>	CE, FCC Part 15 (Class A), AS/NZS CISPR 22, EN55024, EN55022, Class A
<b>Mobile Certifications (GSM/UMTS)</b>	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511
<b>Mobile Certifications (CDMA/EV-DO)</b>	CDG, TIA/EIA-690, TIA/EIA-98-E
<b>Product Warranty</b>	5 year