ConnectPort® WAN Family

Multifunction 3G Wireless WAN Routers

Upgradeable 3G routers provide high performance, secure wireless communications over cellular networks for connecting remote sites and devices.

Overview

The ConnectPort WAN family of upgradeable, commercial-grade 3G cellular routers provides secure high speed wireless connectivity to remote sites and devices. The routers can be used for primary wireless broadband network connectivity to equipment at remote locations, as well as for a backup to existing landlines. Applications include utilities, industrial automation, POS/retail, financial (ATMs), traffic, medical, vehicle, video surveillance and others.

Its upgradeable wireless network platform design provides the flexibility to migrate quickly to future 3G platforms and beyond with supported Type 2 PCMCIA Card slots, PCIExpress modules or PCI Express cards. Also included are RS-232 serial ports for connecting serial devices and built-in 10/100 Ethernet port(s) for connecting multiple network devices.

Digi products can be easily managed via Device Cloud by Etherios™, which provides secure, scalable connectivity for remote management and control of remote devices.

Target Markets

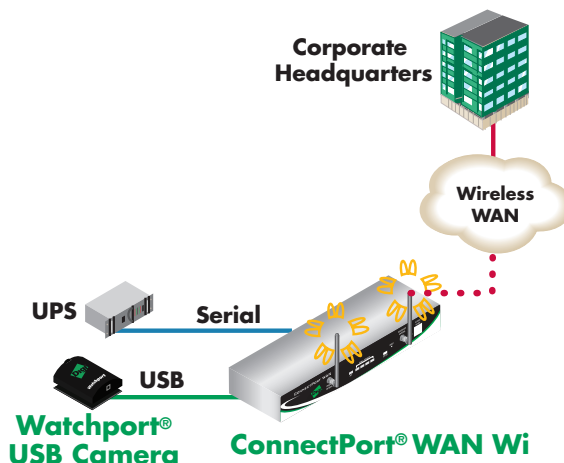| Utilities	Industrial Automation	Retail/POS

Traffic Management	Medical/Healthcare

Application Highlight

Corporate Headquarters

Wireless WAN

UPS — Serial

Watchport® USB Camera — USB

ConnectPort® WAN Wi

Features/Benefits

- Secure Wireless WAN connection over high-speed cellular networks
- Certified by multiple wireless carriers (see website)
- CDMA EV-DO Rev. A or GSM HSPA/UMTS support
- Upgradable via enclosed PCMCIA or PCI Express modules
- Standard Ethernet, serial and USB ports; optional Wi-Fi and GPS
- Integrated VPN support
- Python development environment

ConnectPort® WAN VPN

- 3G high speed upgradeable Wireless WAN cellular router with four 10/100 Ethernet ports, 2 RS-232 serial ports and integrated IPsec VPN client/server for true end-to-end data protection.

ConnectPort® WAN GPS

- 3G high speed upgradeable cellular router with GPS capability.

- Provides secure wireless connectivity to remote sites and devices.

- Allows efficient tracking of mobile workforce location.

ConnectPort® WAN Express

- 3G high speed upgradeable Wireless WAN cellular router with integrated IPsec VPN client/server for true end-to-end data protection.

- Support for PCI Express Cards/fully enclosed for security and durability (PCI Express Card antenna ported to standard SMA connector on outside of enclosure).

ConnectPort® WAN Wi (Ad Hoc)

- 3G high speed upgradeable cellular router with support for Wi-Fi (802.11b/g) technologies.

- Provides secure high speed wireless connectivity to remote sites and devices.

- Operates in Wi-Fi ad hoc (or peer-to-peer) mode to provide local networking as well as the ability to act as an Internet gateway for multiple devices.

Specifications	ConnectPort® WAN VPN	ConnectPort® WAN Wi	ConnectPort® WAN GPS	ConnectPort® WAN Express
Interfaces				
Ethernet				
Ports	4 RJ-45 switch ports	1 RJ-45 switch port	1 RJ-45 switch port	4 RJ-45 switch ports
Standard	IEEE 802.3			
Physical Layer	10/100Base-T			
Data Rate	10/100 Mbps (auto-sensing)			
Mode	Full or Half duplex			
Serial				
Ports	2 RS-232 DB-9M	1 RS-232 DB-9	1 RS-232 DB-9	2 RS-232 DB-9M
Throughput	Up to 230 Kbps			
Signal Support	TXD, RXD, RTS, CTS, DTR, DSR, DCD			
Flow Control	Hardware and Software			
USB				
Ports	2 Type A connectors (see www.digi.com for list of supported USB devices)			
Cellular (Upgradable Interfaces)				
PCI Express Module	Rev A EV-DO (Sprint/Verizon): DualBand 800/1900 MHz with RX Diversity 3.6 HSDPA: UMTS/HSDPA/HSUPA 850/1900/2100 MHz; GSM GPRS/EDGE 850/950/1800/1900 MHz			
PCI Express Card	Sony Ericsson EC400 / EC400g Antenna: 1 or 2 external 50 ohm SMA (Center pin - on device: female; on antenna: male) See model # at www.digi.com for antenna count.			
Wi-Fi				
Standard	IEEE 802.11b/g			
Frequency	2.4 GHz			
Data Rate	Up to 54 Mbps with automatic rate fallback			
Transmit Power	15 dBm ± 2 dBm			
Receiver Sensitivity	-71 dBm @ 54 Mbps; -81 dBm @ 11 Mbps; -88 dBm @ 6 Mbps; -93 dBm @ 1 Mbps			
WLAN Security	64/128-bit WEP encryption (RC4); WPA/WPA2/802.11i; 128-bit TKIP/CCMP (AES) encryption; Enterprise mode (802.1x): LEAP (WEP only), PEAP, TTLS, TLS; GTC, MD5, OTP, PAP, CHAP, MSCHAP, MSCHAPv2, TTLS-MSCHAPv2; Pre-shared key mode (PSK)			
Antenna	1 external 50 ohm RP-SMA (Center pin - on device: male; on antenna: female)			
GPS				
Accuracy	2.5 m CEP			
NMEA Protocol Support	148 dBm acquisition sensitivity			
Acquisition Time	36 seconds (on cold start)			
Update Rate	4 Hz max			
Antenna	1 external 50 ohm SMA (Center pin - on device: female; on antenna: male)			
Features				
Network Protocols	UDP/TCP, DHCP			
Status LEDs	Ethernet, Power on, Cellular link/activity, Signal strength (4 bars)			
Software	Device-initiated patented RealPort COM port redirector and RFC 2217; Python scripting; Custom development environment			
Security	SSL, SSL/TLS, SSHv2, FIPS 197 (serial port)			
Dimensions (L x W x H)	7.75 in (19.7 cm) x 4.11 in (10.40 cm) x 1.30 in (3.30 cm)			
Weight	1.40 lb (0.64 kg); 1.50 lb (0.68 kg) with a module			

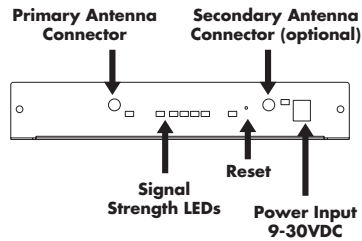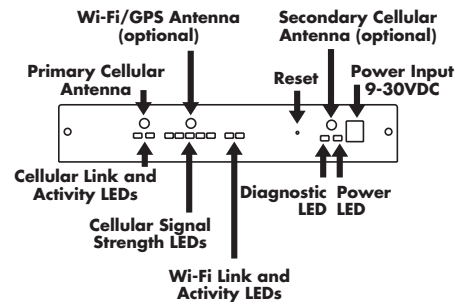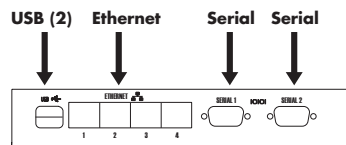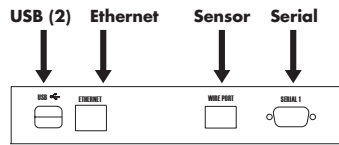| Specifications	ConnectPort® WAN VPN	ConnectPort® WAN Wi	ConnectPort® WAN GPS	ConnectPort® WAN Express
Features - Continued				
Router/Firewall Features	NAT, NAT-T (NAT traversal) VPN tunneling, Port forwarding, Access control lists (IP filtering), IP pass-through, Virtual Router Redundancy Protocol (VRRP) per RFC 3768			
VPN Features	IPsec with IKE/ISAKMP; Multiple tunnel support; DES, 3DES and up to 256-bit AES Encryption, Simple Certificate Enrollment Protocol (SCEP) for X.509 certificates; VPN pass-through, GRE Pass-through, NAT-T			
Management	HTTP/HTTPS, CLI or SSH, Telnet; Optional secure enterprise management via Device Cloud			
Power Requirements				
Power Input	9-30 VDC			
Power Supply	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			
Power Consumption	Idle: 3.1 W; Max: 11.5 W			
Surge Protection	4 kV burst (EFT) per-4-4; 2 kV surge per EN61000-4			
Environmental				
Operating Temperature	-30° C to +75° C (-22° F to +167° F) (reduced cellular performance will occur above 60° C) NOTE: Only applicable to devices shipping with embedded module			
Relative Humidity	5 to 95% (non-condensing)			
Ethernet Isolation	1500 VAC min per IEEE 802.3/ANSI X 3.263			
Serial Port Protection (ESD)	+15 kV air gap and +8 kV contact discharge per IEC 1000-4-2			
Approvals				
Safety	UL 60950, CSA 22.2 No. 60950, EN60950			
Emissions/Immunity	CE, FCC Part 15 Subpart B Class A, AS/NZS CISPR 22, EN55024, EN55022 Class A			
Mobile Certifications - CDMA/EV-DO	CDG, TIA/EIA-690, TIA/EIA-98-E			
Mobile Certifications - GSM/UTMS	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511			

ConnectPort WAN VPN/Express - Front

Primary Antenna Connector
Secondary Antenna Connector (optional)
Signal Strength LEDs
Reset
Power Input 9-30VDC

ConnectPort WAN Wi/GPS - Front

Wi-Fi/GPS Antenna (optional)
Primary Cellular Antenna
Reset
Power Input 9-30VDC
Secondary Cellular Antenna (optional)
Cellular Link and Activity LEDs
Cellular Signal Strength LEDs
Wi-Fi Link and Activity LEDs
Diagnostic LED
Power LED

ConnectPort WAN VPN/Express - Back

USB (2)
Ethernet
Serial
Serial

ConnectPort WAN Wi/GPS - Back

USB (2)
Ethernet
Sensor
Serial

Visit www.digi.com for part numbers.

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