

Digi Connect[®] WAN Family

Cellular Gateways/Routers/VPN Devices

Small, cost-optimized cellular routers utilize global cellular networks for secure connectivity to remote sites and devices.



Overview

Digi Connect WAN cellular routers provide secure high-speed wireless connectivity to remote sites and devices. These products can be used for reliable primary wireless network connectivity to equipment at remote locations, as well as for a backup to existing landline communications. The Digi Connect WAN family is also ideal for use where wired networks are not feasible, or where alternative network connections are required.

Digi Connect WAN products provide a primary Wireless WAN connection to remote sites containing Ethernet and/or serial devices. Applications include new construction locations, industrial automation, power utility substations, retail/POS sites, railroad, temporary facilities without primary wired connections, and many more.

For backup network applications, Digi Connect WAN integrates with remote locations via a secondary Ethernet WAN port on an existing router. This provides a truly diverse network connection for remote locations requiring maximum uptime.

Target Applications



Utilities



Industrial Automation



Traffic Management

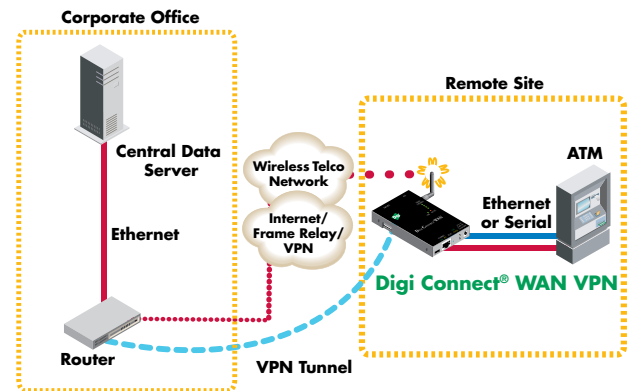


Remote Device Management



Retail/POS

Application Highlight



Features/Benefits

- Small, cost-optimized cellular routers with integrated VPN
- 2G/2.5G (GSM GPRS/EDGE) models with 1 serial, 1 Ethernet port
- 3G (GSM HSUPA/UMTS & EV-DO Rev A PCI Express module) with 1 serial, 1 Ethernet, 1 USB, 1 sensor port
- iDigi™ enables remote management of many remote devices
- Unique Digi SureLink™ maintains “always-on” wireless connection
- Programmable in Python for device customization



Digi Connect® WAN

2.5G Wireless WAN cellular router. Provides high performance wireless TCP/IP data communications via cellular GSM EDGE networks to remote sites and devices.

Digi Connect® WAN 3G

3G high speed upgradeable HSUPA/EV-DO Rev A Wireless WAN cellular router with integrated VPN. Provides primary and backup connectivity to remote sites and devices.

Digi Connect® WAN GPRS

2G Wireless WAN cellular router/gateway. Provides reliable GPRS wireless TCP/IP data communications via cellular. Ideal for M2M applications.

Digi Connect® WAN VPN

2.5G Wireless WAN cellular router plus integrated VPN. Creates a secure WAN connection via an Ethernet-to-cellular interface.

Digi Connect® WAN IA Digi Connect® WAN 3G IA

Industrial-grade 2.5 to 3G Wireless WAN GSM/GPRS/EDGE/HSUPA, CDMA/EV-DO router/gateway. Offers all of the functionality of Digi Connect WAN VPN plus an industrial-grade feature set.

Specifications				
	Digi Connect® WAN GPRS	Digi Connect® WAN Digi Connect® WAN VPN	Digi Connect® WAN 3G	Digi Connect® WAN IA Digi Connect® WAN 3G IA
Interfaces				
Serial				
Ports	1 RS-232/422/485 DB-9; Up to 230 Kbps throughput; Hardware and software flow control; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD	1 RS-232 DB-9; Up to 230 Kbps throughput; Hardware and software flow control; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD	1 RS-232 DB-9; Up to 230 Kbps throughput; Hardware and software flow control; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD	1 RS-232/422/485 DB-9; Up to 230 Kbps throughput; Hardware and software flow control; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD
Ethernet				
Ports	1 RJ-45 10/100 Mbps 10Base-T (auto-sensing); Full or half duplex			
Cellular				
GSM GPRS 12/EDGE 12	Fixed		Upgradable (PCI Express Module)	Fixed
UMTS/HSUPA & EV-DO Rev A	N/A		Upgradable (PCI Express Module - 3G models only)	
Other Interfaces				
USB	N/A		1 USB Type A connector (3G models only)	
Sensor	N/A			1 sensor port for use with Watchport Sensors (3G IA only)
Dual SIM	N/A		(3G models only)	
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; Digi SureLink "always-on" connection; Python scripting; Custom development environment			
Security	SSL, SSL/TLS, SSHv2, FIPS 197			
Router/Firewall Features	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			

Specifications

Digi Connect® WAN GPRS

Digi Connect® WAN
Digi Connect® WAN VPN

Digi Connect® WAN 3G

Digi Connect® WAN IA
Digi Connect® WAN 3G IA

Features (continued)

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 certificateN features not included on Digi Connect WAN model)	
Management	HTTP/HTTPS, CLI or Telnet; Optional secure enterprise management via iDigi	
IA Features	N/A	DIN rail mounting kit included; Class 1, Div 2 Rating; Terminal block for power; Modbus to Modbus TCP protocol conversion
Dimensions (L x W x H)	5.25 in (13.34 cm) x 3.35 in (8.51 cm) x 0.97 in (2.47 cm) 3G models: 5.30 in (13.46 cm) x 3.38 in (8.58 cm) x 0.98 in (2.48 cm)	
Weight	1.00 lb (0.45 kg)	

RF Features

GSM Models

GPRS	850/900/1800/1900 MHz; Max 86 Kbps DL/UL	
EDGE	N/A	850/900/1800/1900 MHz; 216 Kbps DL, 108 Kbps UL
HSUPA	N/A	850/1900/2100 MHz HSUPA: 7.2 Mbps DL, 2.0 Mbps UL (VPN and 3G models only)
Antenna	1 x 50 Ω female SMA connector	2 antennas (Rx Diversity)

CDMA Models

1xEV-DO	N/A	1900 MHz; 3.1 Mbps DL, 1.8 Mbps UL (VPN and 3G IA models only)
Antenna	1 x 50 Ω female SMA connector	2 antennas (Rx Diversity)

Power Requirements

Power Input	9-30VDC	
Power Supply	12VDC power supply for 0° C to 60° C (32° F to 140° F) with locking barrel connector included; Extended temperature power supply available	Power supply required (not included)
DC Power Consumption	Idle: 1.2W; Max: 3.4W	
AC Power Consumption	Idle: 2.0W; Max: 5.8W	
Surge Protection	4 kV burst (EFT) per-4-4; 2 kV surge per EN61000-4	

Environmental

Operating Temperature	GSM models: -25° C to +75° C (-13° F to 167° F) CDMA models: -30° C to +75° C (-22° F to 167° F); Reduced cellular performance will occur above 60° C for CDMA models	
Relative Humidity	5 to 95% (non-condensing)	
Ethernet Isolation	1500VAC 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

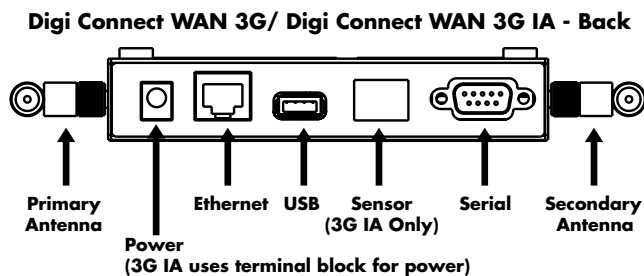
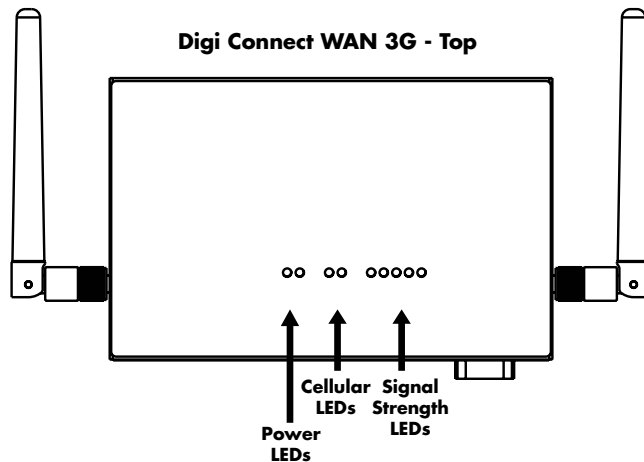
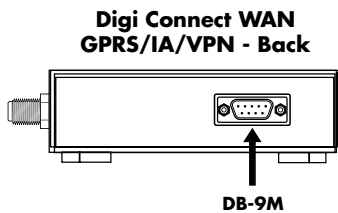
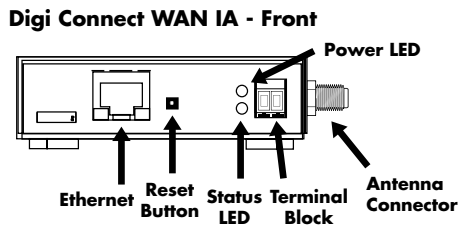
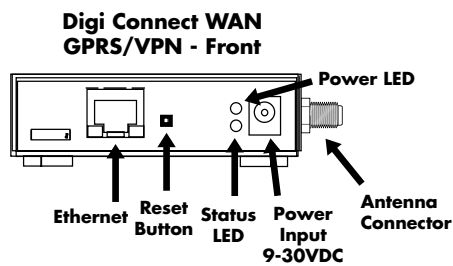
Safety	UL 60950, CSA 22.2 No. 60950, EN60950	
Emissions/Immunity	CE, FCC Part 15 Class A (FCC identifier GGL-R1902G), AS/NZS CISPR 22, EN55024, EN55022 Class A	
Mobile Certifications - CDMA/EV-DO	CDG, TIA/EIA-690, TIA/EIA-98-E	
Mobile Certifications - GSM/UMTS	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511	
Wireless Carrier Certifications	Certified by most major carriers. See www.digi.com for current listing.	

Digi™ M2M Operating Platform



Manage many devices at the same time with just a few clicks

Digi products can be easily managed via iDigi, a hosted Machine-to-Machine (M2M) operating platform that provides secure, scalable connectivity for remote management and control of remote devices. Based upon a cloud computing model that provides on-demand scalability on a high-availability platform, iDigi offers easy integration with M2M and mesh network devices via an open communications protocol. The iDigi Web-Service Protocol provides easy integration with network applications. iDigi's suite of robust network management tools includes authentication, configuration management, account management, group and individual software updating, network data storage, and gateway programming. All of this is provided via centralized control through the iDigi Manager Pro service module at my.iDigi.com.



Visit www.digi.com for part numbers.

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