Digi Connect® WAN Family

Cellular and WiMAX Routing Gateways/VPN Devices

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



Overview

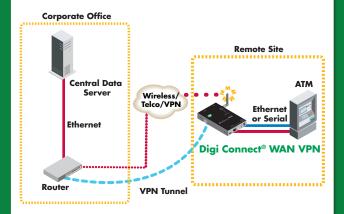
Digi Connect WAN cellular and WiMAX routing gateways provide secure high-speed wireless connectivity to remote sites and devices. These products can be used for reliable primary wireless network connectivity to equipment at remote locations, as well as for a backup to existing landline communications. 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.



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
- 4G WiMAX
- iDigi® platform 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 routing gateway.
Provides high performance wireless TCP/IP data
communications via cellular GSM EDGE networks
to remote sites and devices.

Digi Connect[®] WAN VPN

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

Digi Connect® WAN 3G

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

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

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

Digi Connect® WAN GPRS

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

Digi Connect® WAN 4G

High speed/Low latency 4G commercial grade WiMAX routing gateway with integrated VPN. Provides primary and backup connectivity to remote sites and devices.

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	Digi Connect® WAN 4G			
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-232/422/485 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, Auto crossover detection (Auto MDIX)						
Wireless WAN				100 mg			
GSM GPRS 12/EDGE 12	Fixed	Upgradable	Fixed	Upgradable			
UMTS/HSUPA, EV-DO, Wimax	N/A	Upgradable (PCI Express Module - 3G/4G models only)					
Other Interfaces							
USB	N/A	1 USB Type A connector (3G/4G models only)					
Sensor	N/A		1 sensor port for use with Watchport Sensors (3G IA only)	N/A			
Dual SIM	N/A	3G/4G 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						
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 certificate; VPN features not included on Digi Connect WAN model						
Management	HTTP/HTTPS, CLI or Telnet; Optional secure enterprise management via iDigi platform						

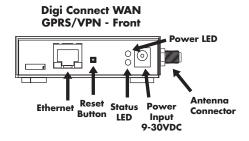
Specifications	Digi Connect® WAN GPRS	Digi Connect® WAN Digi Connect® WAN VPN	Digi Connect® WAN 3G	Digi Connect® WAN IA Digi Connect® WAN 3G IA	Digi Connect® WAN 4G	
Features (continued)						
IA Features		N/A		DIN rail mounting kit included; Class 1, Div 2 Rating; Terminal block for power; Modbus to Modbus TCP protocol conversion	N/A	
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 HSUPA: 7.2 Mbps DL, 2.0 Mbps UL (VPN and					
Antenna	1 antenna 50 Ω SMA 2 antennas (Rx Diversity) N/A				N/A	
CDMA Models						
1xEV-D0	N/A	800/1900 MHz; 3.1	1 Mbps DL, 1.8 Mbps UL (VPN and 3G IA models only)		N/A	
Antenna	1 x 50 Ω female	e SMA connector	2 antennas (Rx Diversity)		N/A	
4G Models						
WiMAX	WiMAX (802.16e-2005); 2.3-2.7 GHz (WF3A Profile N/A Wave2; S-0FDMA MIMO; QPSK, 16 QAM, 64 QAM; 5/ MHz bandwidth UL/DL					
Antenna	N/A 2 antennas 50 Ω RPSMA					
Power Requirements						
Power Input	9-30	OVDC	6-30VDC	IA model: 9-30VDC 3G IA model: 6-30VDC	6-30VDC	
Power Supply	12VDC power supply for 0° C to 60° C (32° F to 140° F) with locking barrel connector included (except IA models); Extended temperature power supply available; IA models require a power supply (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 WiMAX models: -20° C to +75° C					
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.					

iDigi® M2M Network Operating Platform

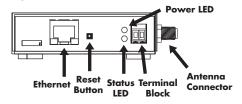


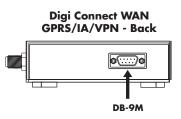
Manage many devices at the same time with just a few clicks

Digi products can be easily managed via the iDigi Machine-to-Machine (M2M) network operating platform, which provides secure, scalable connectivity for remote management and control of remote devices. Based upon a cloud computing model that provides on-demand scalability and high-availability, the iDigi platform offers easy integration with M2M and mesh network devices via an open communications protocol. iDigi web services provide easy integration with network applications. The iDigi 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.

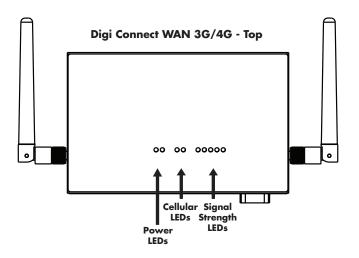


Digi Connect WAN IA - Front

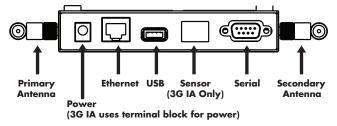




Digi International



Digi Connect WAN 3G/ Digi Connect WAN 3G/4G IA - Back



Visit www.digi.com for part numbers.

DIGI SERVICE AND SUPPORT - You can purchase with confidence knowing that Digi is here to support you with expert technical support and a strong five-year warranty, www.digi.com/support

Digi International

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