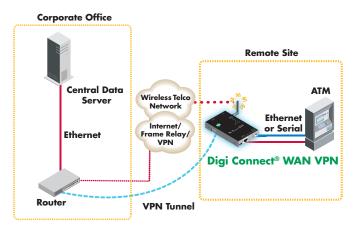
Digi Connect[®] WAN Family

Cellular Gateways/Routers/VPN Devices

Cellular routers, gateways and VPN devices provide high performance wireless TCP/IP data communications via cellular GSM/CDMA networks, for primary and backup connectivity to remote sites and devices.



Features/Benefits

- Hardware suite includes cellular gateways, routers and VPN devices
- GSM GPRS/EDGE/UMTS/HSDPA or CDMA 1xRTT/EV-DO network for reliable wireless network connectivity
- Unique Digi SureLink[™] "always-on" connection maintains wireless connection for rapid on-demand communications
- 10/100Base-T Ethernet and serial connections
- 9-30VDC for diverse power input
- Web interface for easy centralized console configuration and statistics
- Integrates with Digi Connectware Manager for seamless management and monitoring of hundreds or thousands of devices
- Up to 256-bit AES security provides encryption and authentication for management communications via Digi Connectware Manager



Overview

The Digi Connect WAN family of commercial-grade Wireless WAN cellular routers, gateways and VPN appliances provides secure high-speed wireless connectivity to remote sites and devices. Digi Connect WAN cellular 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. They are also ideal for use where wired networks (e.g., leased line/frame relay, ISDN, DSL) are not feasible, or where alternative network connections are required.

Digi Connect WAN products are able to 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 cellular products integrate 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, such as retail/POS and financial applications.

Digi SureLink is a unique feature that provides a "persistent connection" over wireless networks by utilizing a three-way client and server initiated scheme. All Digi Connect WAN cellular products seamlessly integrate with Digi Connectware[®] Manager, which provides easy setup, configuration and maintenance of large installations. Users can upgrade firmware or change settings on thousands of devices with only a few clicks. It also makes troubleshooting simple by reporting problems like identifying misbehaving devices or network issues.



www.digi.com

Digi Connect WAN

2.5G Wireless WAN cellular router. Provides high performance wireless TCP/IP data communications via cellular GSM EDGE and CDMA 1xRTT networks to remote sites and devices.

Digi Connect WAN 3G

3G high speed upgradeable HSDPA/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, CDMA/EV-DO router/gateway. Offers all of the functionality of Digi Connect WAN VPN plus an industrial-grade feature set.

	Digi Connect® WAN	Digi Connect® WAN GPRS	Digi Connect® WAN 3G	Digi Connect® WAN VPN	Digi Connect® WAN IA/ Digi Connect® WAN 3G IA
Interfaces					
Serial Port Type	RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232/422/485
10/100 Ethernet	•	•	•	•	•
USB Port			•		
Sensor Port			•		
GSM GPRS 12/EDGE 12 -or- CDMA 2000 1xRTT	Fixed	Fixed (GPRS Only)	Upgradable (PCI Express Module)	Fixed	Fixed
UMTS/HSDPA & EV-DO Rev A			Upgradable (PCI Express Module)		3G IA only
Routing					
NAT, NAT-T, Port Forwarding, DHCP Server/Client, VPN Pass-Through, Firewall - IP Filtering, VRRP	•	•	•	•	•
Security					
SSL, SSHv2, FIPS 197, HTTPS	•	•	•	•	•
Integrated IPsec VPN		•	•	٠	•
Management					
Built-in Web Interface and Command Line Interface	•	•	•	•	•
Digi Connectware® Manager	•	•	•	•	•
Special Features					
Digi SureLink™	٠	٠	•	٠	•
RealPort [®] Virtual COM Ports	•	•	•	•	•
DIN Rail Mountable	•	•	•	•	• Kit Included
Terminal Block for Power, Modbus Support, Class 1, Div 2					•

• GPRS multi-slot class 12

Network: Quadband 1900/850

Throughput up to 240 Kbps,

External 50 Ohm female SMA

Network: 800 MHz CDMA

Transmit frequency: 1851-

Receiver frequency: 1931-

1909 MHz and 824-849 MHz

1989 MHz and 869-894 MHz

External 50 Ohm female SMA

• Upgradable PCI Express Module

- GSM UMTS/HSDPA Models

Throughput up to 153 Kbps, 60-80 Kbps typical

and 1800/900 MHz GSM GPRS/EDGE Transmit frequency: 1850-1910 MHz

Receiver frequency: 1930-1990 MHz

Cellular: 1900 MHz CDMA PCS 1xRTT

- GSM EDGE Models

and 824-849 MHz

and 869-894 MHz

- CDMA 1xRTT Models

connector

connector

100-130 Kbps typical

• Edge Class 12

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FEATURES	FEATURES (CONT.)
 Easily accessible SIM Network protocols UDP/TCP, DHCP Status LEDs Ethernet, power on, cellular link/activity, signal strength Device-initiated RealPort for COM ports and RFC 2217 Python scripting, custom development environment Router/Firewall Features NAT NAT-T (NAT traversal) VPN tunneling 	 UMTS: 850/1900/2100 MHz HSPA: 850/950/1800/1900 MHz External 50 Ohm female SMA connector CDMA EV-DO Rev A Models Upgradable PCI Express Module - Sprint, Verizon Dualband 800/1900 MHz with RX Diversity 2 external 50 Ohm female SMA connectors Management HTTP and CLI for web management
 Port forwarding VPN/GRE pass-through Access control lists (IP filtering) Virtual Router Redundancy Protocol (VRRP) per RFC 3768 	Optional secure enterprise management via Digi Connectware Manager
 Security SSL, SSHv2, FIPS 197 VPN Features IPsec with IKE/ISAKMP Multiple tunnel support DES, 3DES and AES up to 256-bit encryption Simple Certificate Enrollment Protocol (SCEP) for X.509 certificates IA Features Digi Connect WAN IA/ Digi Connect WAN IA/ Digi Connect WAN 3G IA DIN rail mounting kit included Class 1, Div 2 Rating (pending on 3G IA) Terminal block for power Modbus to Modbus TCP protocol conversion RF Features GSM GPRS Models GDPC multiplet alogg 12 	Ethernet Connector: RJ-45 Standard: IEEE 802.3 Physical layer: 10/100Base-T Data rate: 10/100 Mbps (auto-sensing) Mode: full or half duplex (auto-sensing) Serial RS-232/422/485 Throughput up to 230 Kbps Full signal support for TXD, RXD, RTS, CTS, DTR, DSR and DCD Hardware and software flow control Can provide diverse out-of-band console management for network devices like routers and switches Other Interfaces (3G Model only) 1 USB Type A connector 1 sensor port (for use with Watchport Sensors)

Watchport Sensors)

ENVIRONMENTAL

- Operating temperature: -25° C to +75° C (-22° F to +158° F) for GSM models
- Operating temperature: -30° C to +75° C (-22° F to +140° F) for CDMA models (reduced cellular performance will occur above 60° C)
- Relative humidity: 5% to 95% (non-condensing)
- Ethernet isolation: 1500VAC min per IEEE802.3/ANSI X3.263
- Serial port protection (ESD): +15 kV Air 6 AP and +8 kV contact discharge per IEC 1000-4-2

WIRELESS CARRIER CERTIFICATIONS

Certified by most major carriers. Please see www.digi.com for current listing.

28	POWER REQUIREMENTS
	 Power input: 9-30VDC 12VDC power supply for 0° C to 60° C (32° F to 140° F) included; extended temperature available; no power supply shipped with

- IA versions DC power consumption Idle: 1.2 W, Max: 3.4 W
- AC power consumption - Idle: 2.0 W, Max: 5.8 W

- Surge protection (with included power supply)
 - 4 kV burst (EFT) per-4-4 2 kV surge per EN61000-4-5
 - (non-condensing)

REGULATORY APPROVALS

Mobile Certifications

- GSM Models
- PTCRB, NAPRD.03 .
- GCF-CC
- R&TTE, EN 301 511
- CDMA Models
- CDG TIA/EIA-690
- CDG TIA/EIA-98-E

Safety

- UL 60950
- CSA 22.2 No. 60950
- EN60950
- Emissions/Immunity

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- FCC Part 15, Class A (FCC identifier GGL-R1902G)
- AS/NZS CISPR 22
- EN55024
- EN55022, Class A

DIMENSIONS

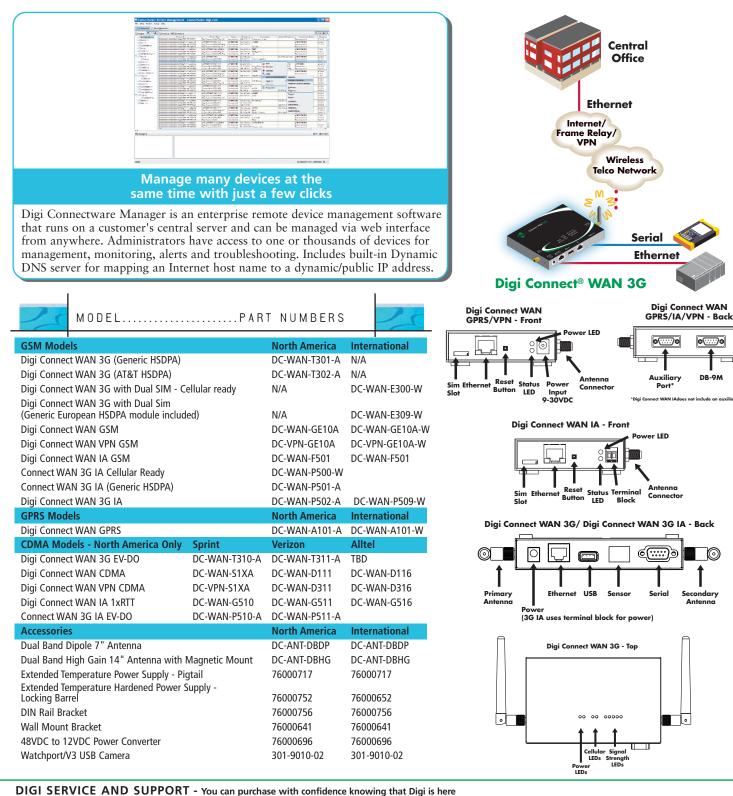
- Width: 3.35 in (8.51 cm) •
- Height: 0.97 in (2.47 cm)
- Length: 5.25 in (13.34 cm) •
- Weight: 1.00 lb (0.45 kg)

5.25 (13.33 cm) 0.97 (2.47 cm) - 3.35″ (8.51 cm) 1

Digi Connect® WAN



Digi Connect® WAN 3G



to support you with expert technical support and a strong five-year warranty. www.digi.com/support

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Digi International, the leader in device networking for business, develops reliable products and technologies to connect and securely manage local or remote electronic devices over the network or via the web. With over 20 million ports shipped worldwide since 1985, Digi offers the highest levels of performance, flexibility and quality.

www.digi.com

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