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

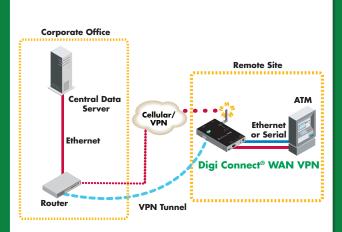
Digi Connect WAN cellular and WiMAX routing gateways provide secure high-speed wireless connectivity to remote sites and devices. These products can be used for reliable primary wireless network connectivity to equipment at remote locations, as well as for a backup to existing landline communications. 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) and CDMA 1xRTT models with 1 serial, 1 Ethernet port
- 3G/4G HSPA/HSPA+ and EV-DO Gobi with 1 serial, 1 Ethernet, 1 USB, 1 sensor port
- 4G WiMAX
- Device Cloud by Etherios[™] enables remote management of many remote devices
- Unique Digi SureLink[™] maintains "always-on" wireless connection
- Programmable in Python for device customization

Specifications	Digi Connect® WAN	Digi Connect [®] WAN IA		
Wireless Interfaces				
WWAN**				
GSM/CDMA Gobi HSPA+ (U8)	HSPA+/EV-D0 800/850/900/1700 (AWS)/1900/2100 MHz Gobi with Rx Diversity			
Edge (E1)	GPRS/Edge 850/900/1800/1900 MHz			
CDMA 1xRTT (Bx)	1xRTT 800/1900 MHz			
WiMAX (Yx)	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			
Connector	1 or 2 x SMA (Center pin - on device: female; on antenna: male)			
SIM Slots	2 or 0 (CDMA varients)			
SIM Security	SIM slot c	over plate		
Other				
RF	N/A			
Wi-Fi	N/A			
Satellite	N/A			
GPS	N/A			
Wired Interfaces				
Serial				
Ports	1			
Standard	RS-232	RS-232/422/485 (Software selectable)		
DTE/DCE	DTE			
Signal Support	TXD, RXD, RTS, CTS, DTR, DSR and DCD			
Flow Control	Hardware and software flow control			
COM Port Redirector	RealPort®			
Throughput	Up to 230 Kbps			
Connector	DB9 Male			
Ethernet				
Ports	1			
Standard	IEEE 802.3			
Physical Layer	10/100Base-T			
Data Rate	10/100 Mbps (auto-sensing)			
Mode	Full or Half duplex (auto-sensing)			
Interface	Auto MDI/MDIX			
Connector	RJ-45			
1/0				
Ports	N/A			
Connector	N/A			

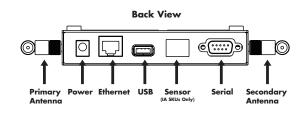
Specifications	Digi Connect® WAN	Digi Connect® WAN IA		
Wired Interfaces (Continued)				
USB				
Ports		1		
Standard	USB 1.1			
Signaling	Full-speed			
Connector	Туре А			
Other Contraction of the Contrac				
Sensor	N/A	1 sensor port for use with Watchport $^{\odot}$ sensors		
Software/Management				
Management (Cloud-based)	Device Manager			
Management (Local)	Web Interface via HTTP/HTTPS, Password access control, IP service port control; CLI via serial port, Telnet, Python scripting; Digi SureLink™ "always-on" connection			
Security	SSL tunnels, SSHv2, FIPS 197 (IPsec, HTTPS)			
Network Protocols	UDP/TCP, DHCP, SNMPv1/v2			
VPN	IPsec with IKE/ISAKMP; Multiple tunnel support; DES, 3DES and up to 256-bit AES encryption; VPN pass-through, GRE forwarding; Simple Certificate Enrollment Protocol (SCEP) for X.509 certificate			
Routing	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			
Industrial Protocol Support	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 XBee to transport serial data; Handles unique timing issues per Modbus protocol rules; Uses Modbus Unit ID to look up IP or mesh MAC address.			
Real-Time Clock	Yes			
Memory	16 MB Flash, 32 MB RAM			
Power				
Input	6-30 VDC			
Consumption	Idle: 1.5 W, Max: 10.4 W			
Protection	4 kV burst (EFT) per-4-4, 2 kV surge per EN61000-4			
Connector	Locking barrel	Compression terminal block		
DC Power Cord*	Available upon request	N/A		
AC Power Supply*	12 VDC power supply for 0° C to 40° C (32° F to 104° F) included; Extended temperature power supply available separately	N/A		
Battery Backup	N/A			
Physical				
Dimensions (L x W x H)	5.25 in x 3.35 in x 1.00 in (13.33 cm x 8.50 cm x 2.54 cm)			
Weight	0.44 lb (0.20 kg)			
Status LEDs	Ethernet status, Power, Cellular link/activity, Signal strength (4 bars)			
Enclosure Material	Industrial (metal)			
Enclosure Rating	N/A			
Mounting	Wall-mount bracket sold separately	DIN rail bracket included		

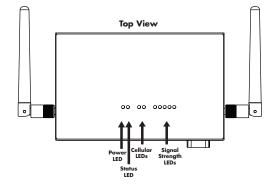
Specifications	Digi Connect® WAN	Digi Connect® WAN IA		
Environmental				
Operating Temperature ***	-30° C to +75° C (·	-30° C to +75° C (-22° F to +167° F)		
Storage Temperature	-40° C to +85° C			
Relative Humidity	5% to 95% (non-condensing)			
Ethernet Isolation	1500 VAC min per IEEE 802.3/ANSI X3.263			
Serial Port Protection (ESD)	+15 kV Air Gap and +8 kV contact discharge per IEC 1000-4-2			
Hazardous (Class 1 Div 2)	No	Yes		
Conformal Coating	N/A			
Approvals				
GSM/UMTS	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511			
CDMA/EV-DO	CDG, TIA/EIA-690, TIA/EIA-98-E			
Cellular Carriers	Certified by most major carriers. See www.digi.com for current listing.			
Safety	UL 60950, CSA 22.2 No. 60950, EN60950; Class 1 Div 2 (IA model only)			
Emissions/Immunity	CE, FCC Part 15 (Class A), AS/NZS CISPR 22, EN55024, EN55022, Class A			
Warranty				
Product Warranty	5 Years			

* Optional hardware

** Transfer rates are network operator dependent *** Reduced cellular performance may occur above +60° C. Standard Temperature power supplies may reduce temperature range.

Device Cloud Manage many devices at the same time with just a few clicks Digi products can be easily managed via Device Cloud, which provides secure, scalable ZigBe connectivity for remote management and control of remote devices. Based upon a cloud computing model that provides on-demand scalability and high-availability, Device Cloud offers Cellula easy integration with M2M and mesh network devices via an open communications protocol. CLOUD Device Cloud web services provide easy integration with network applications. Device Cloud Serial suite of robust network management tools includes authentication, configuration management, Enterprise account management, group and individual software updating, network data storage, and Wi-Fi Applications gateway programming. All of this is provided via centralized control through the Device Other Manager service module at login.etherios.com.





Visit www.digi.com for part numbers.

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