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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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COMPACT ENTERPRISE  
CLASS 3G/4G LTE  
ROUTER



# DIGI TRANSPORT® WR21

Compact, flexible, low-cost 3G/4G LTE enterprise router for remote and mobile networking applications

Digi TransPort WR21 is a full-featured cellular router offering the flexibility to scale from basic connectivity applications to enterprise class routing and security solutions. With its high-performance architecture, Digi TransPort WR21 provides primary and backup WWAN connectivity over 3G/4G LTE. The platform includes software selectable multi-carrier and regional LTE variants.

Flexible power and connectivity options, along with extended temperature ranges make Digi TransPort WR21 a versatile product for both commercial and industrial environments.

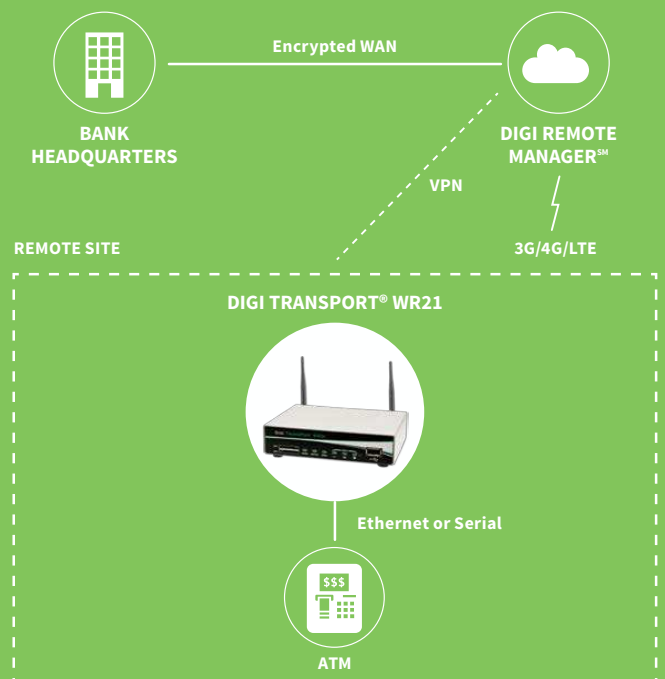
The Digi TransPort WR21 supports enterprise software features for advanced security (stateful firewall, MAC filtering, VPN), redundancy (VRRP+, SureLink®), and management (SNMP, event logging, analyzer trace, and QOS), enabling the product to be used in PCI or NERC-CIP compliant applications.

Digi management solutions provide easy setup, configuration and maintenance of large installations of remote Digi TransPort devices. Digi Remote Manager<sup>SM</sup> offers web-based device management for remote Digi cellular routers and gateways.

## BENEFITS

- Compact, low-cost, flexible cellular routing platform with standard and enterprise feature sets
- Standard option includes basic routing and IP filtering; Enterprise option includes advanced routing protocols, VPN and stateful firewall
- High-performance architecture, flexible power and extended operating temperature
- 2.5G/3G/4G cellular interface including: including LTE, HSPA, HSPA+ and CDMA: 1xRTT, EV-DO
- RS-232 serial and 10/100 Ethernet or RS-232/422/485 serial and 2-port Ethernet switch
- Digi Remote Manager software for easy setup, configuration, and maintenances

## APPLICATION EXAMPLE



## RELATED PRODUCTS



Digi TransPort<sup>®</sup>  
WR11



Digi TransPort<sup>®</sup>  
WR44



Digi TransPort<sup>®</sup>  
WR44 R



Accessories



Digi Remote  
Manager<sup>SM</sup>

## SPECIFICATIONS

## Digi TransPort® WR21

## WIRELESS INTERFACES

## WWAN\*\*

LTE - EMEA (L1)	800/850/900/1800/1900/2100/2600 MHz; 3G fall back to 850/900/1900/2100 MHz and 2G fall back to 850/900/1800/1900 MHz; Transfer rate (max): 50 Mbps up, 100 Mbps down
LTE 450 - EMEA/APAC (M2)	Cellient MPL200, LTE: 450/800/900/1800/2600MHz; fallback to HSPA and 2G
LTE - NORTH AMERICA (L5)	Software defined multi-carrier (Verizon, AT&T, and Sprint) 700/850/1700(AWS)/1900 MHz; 2G/3G GSM fall back to 850/900/1700AWS/1800/1900/2100 MHz; 2G/3G CDMA fall back to 800/1900 MHz; Transfer rate (max): 50 Mbps up, 100 Mbps down, Verizon Private Network, DMNR and PNTM Approved
LTE - NORTH AMERICA (L6)	700/850/1700(AWS)/1900 MHz; 2G/3G fall back to 850/1900 MHz; Transfer rate (max): 50 Mbps up, 100 Mbps down
LTE - VERIZON (L8)	700/1700(AWS) MHz; No 2G/3G fall back; Transfer rate (max): 50 Mbps Up, 100 Mbps Down, Verizon Private Network, DMNR and PNTM Approved
HSPA+ (U9)	850/900/1700 (AWS)/1900/2100 MHz; Transfer rate (max): 5.76 Mbps up, 21 Mbps down
CDMA EV-DO (DX)*	450 MHz; EV-DO Rev B; R-UIM support; Transfer rate (max): 14.7 Mbps up; 5.4 Mbps down
CDMA 1XRTT (BX)*	800/1900 MHz; Transfer rate (max): 153 Kbps up/down
GSM-R (R5)*	900/1800/1900 MHz (TRM-5); GPRS Class 10; Transfer rate (max): 42.8 Kbps up, 85.6 Kbps down
CONNECTORS	Ux, Lx variants: 2 x 50 Ω SMA (Center pin: female); Dx, Bx variants: 1 x 50 Ω SMA (Center pin: female)
SIM SLOTS	2, Mini-SIM (2FF)
SIM SECURITY	Optional SIM slot cover plate

## GPS\*

CHANNELS	12 channel, continuous tracking
SENSITIVITY	Tracking1: -161 dBm; Acquisition2 (Assisted, non-LTE): -158 dBm; Acquisition (Assisted, LTE): -153 dBm; Acquisition (Standalone): -145 dBm
PROTOCOL	NMEA 0183 V3.0
COLD START	< 0.2 m/s
HORIZONTAL ACCURACY	< 2 m (50%); < 5 m (90%)
VELOCITY ACCURACY	< 0.2 m/s

## OTHER

ADDITIONAL FEATURES	Send GPS via UDP/IP, TCP/IP (up to two destinations) or serial; Customize and/or send data using Python; GPS status query; Time source capable
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## WIRED INTERFACES

## SERIAL

PORTS	1
STANDARD	Option of RS-232 or RS-232/422/485
ASYNC/SYNC	Async
DTE/DCE	DCE
SIGNAL SUPPORT	TXD, RXD, RTS, CTS, DTR, DCD, DSR, RI
FLOW CONTROL	Software (XON/XOFF), Hardware supported
COM PORT REDIRECTOR	RealPort®
CONNECTOR	DB-9

## ETHERNET

PORTS	2
STANDARD	IEEE 802.3
PHYSICAL LAYER	10/100 Base-T
DATA RATE	10/100 Mbit/s
MODE	Full or Half duplex
INTERFACE	Auto MDI/MDIX
CONNECTOR	RJ-45

## USB

PORTS	1
STANDARD	USB 2.0
SIGNALING	High-speed
CONNECTOR	Type A

\* Optional hardware. Lead time and/or minimum order quantity may apply. Contact Digi Sales for details.

\*\* Transfer rates are theoretical and network operator dependent

## SPECIFICATIONS

## Digi TransPort® WR21

MANAGEMENT	
REMOTE MANAGEMENT	Digi Remote Manager, Digi Device Cloud (cloud based); SNMP v1/v2c/v3 (user installed/managed)
LOCAL MANAGEMENT	Web interface (HTTP/HTTPS); CLI (Telnet, SSH, SMS, Serial Port)
MANAGEMENT/ TROUBLESHOOTING TOOLS	FTP, SFTP, SCP; Protocol analyzer with PCAP for Wireshark; Event logging with Syslog and SMTP; NTP/SNTP
MEMORY	128 MB NAND Flash/128 MB DDR2 SDRAM
POWER	
INPUT	9-30 VDC
CONSUMPTION	6W max, 4W typical
CONNECTOR	Depending on model: Locking barrel or screw-down removeable terminal block
DC POWER CORD*	Locking barrel to bare wire
DC POWER SUPPLY*	100-240 VAC 50/60 Hz; Option of standard temperature or extended temperature
PHYSICAL	
DIMENSIONS (L X W X H)	3.9 in x 5.2 in x 1.3 in (100 mm x 131 mm x 32 mm)
WEIGHT	1.08 lb (0.49 kg)
STATUS LEDS	Power, Service, WWAN, 3x Signal strength
ENCLOSURE MATERIAL/RATING	Industrial (Metal)/ IP30
MOUNTING	Brackets for wall mount & DIN rail sold separately
ENVIRONMENTAL	
OPERATING TEMPERATURE ***	-35° C to +70° C
STORAGE TEMPERATURE	-40° C to +85° C
RELATIVE HUMIDITY	0% to 95% (non-condensing) @ 25° C
ETHERNET ISOLATION	1.5 kV RMS
SERIAL PORT PROTECTION (ESD)	15 kV
HAZARDOUS (CLASS 1 DIV 2)	Models with Serial (RS-232/422/485) compliant to UL1604 standard
APPROVALS	
GSM/UMTS	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511
CDMA/EV-DO	CDG TIA/EIA-690, CDG TIA/EIA-98-E
CELLULAR CARRIERS	Certified by most major carriers. See <a href="http://www.digi.com">www.digi.com</a> for a full list.
SAFETY	UL 60950, CSA 22.2 No. 60950, EN60950
EMISSIONS/IMMUNITY	CE, FCC Part 15 Class B, AS/NZS CISPR 22, EN55024, EN55022 Class B
WARRANTY	
PRODUCT WARRANTY	5 years

## ENTERPRISE SOFTWARE

## DESCRIPTION

PROTOCOLS	HTTP, HTTPS, FTP, SFTP, SSL, SMTP, SNMP (v1/v2c/v3), SSH, Telnet and CLI for web management; remote management via Digi Remote Manager; SMS management, protocol analyzer, ability to capture PCAP for use with Wireshark; DynDNS; Dynamic DNS client compatible with BIND9/No-IP/DynDNS
SECURITY/VPN	Stateful inspection firewall with scripting, address and port translation; VPN: IPsec with IKEv1, IKEv2, NAT Traversal; SSL, SSLv2, FIPS 197, Open VPN client and server; PPTP, L2TP; VPN Tunnels included: 5; Maximum VPN Tunnels available: 5; Cryptology: SHA-1, MD5, RSA; Encryption: DES, 3DES and AES up to 256-bit (CBC mode for IPsec); Authentication: RADIUS, TACACS+, SCEP for X.509 certificates; Content Filtering (via 3rd party); MAC Address Filtering; VLAN support; Ethernet Port Isolation
ROUTING/FAILOVER	IP pass-through; NAT, NAPT with IP Port Forwarding; Ethernet Bridging; GRE; Multicast Routing; Routing Protocols: PPP, PPPoE, RIP (v1, v2) OSPF, SRI, BGP, iGMP routing (multicast); RSTP (Rapid Spanning Tree Protocol); IP Failover: VRRP, VRRP+TM; Automatic failover/failback to second GSM network/Standby APN; Verizon NEMO/DMNR for Primary Wireless Access
OTHER PROTOCOLS	DHCP; Dynamic DNS client compatible with BIND9/No-IP/DynDNS; QoS via TOS/DSCP/WRED
SPECIALTY/LEGACY PROTOCOLS	RealPort®; Modbus UDP/TCP to serial; X.25 including XOT, SNA/IP, TPAD and PAD; Protocol switch*; Ethernet, serial I/O and DNP3 and Modbus bridging for connecting diverse field assets

\* Optional hardware. Lead time and/or minimum order quantity may apply. Contact Digi Sales for details.

\*\*\* Reduced cellular performance may occur above +60° C. Standard temperature power supplies may reduce temperature range.

# DIGI REMOTE MANAGER<sup>SM</sup>



## CAPABILITIES

- Centralized management of remote devices over 3G/4G LTE
- Define standard configurations and automatically monitor individual devices for PCI security compliance
- Report and alert on performance statistics, including connection history, signal quality, latency, data usage and packet loss
- No servers or applications to operate and maintain
- Complete tasks for your entire device network in minutes
- Edit configurations and update firmware for your individual devices or groups
- Monitor the status and location of your remote device via a web browser
- Active or deactivate cellular lines and monitor data to ensure you never incur overage charges

## INFRASTRUCTURE

- Hosted in multiple commercial-grade SAS 70 certified facilities in North America and Europe
- Superior availability, operating to 99.9% or greater
- Open APIs available to support application development

## SECURITY

- Certified SSAE-16 and ISO27001 facilities
- Member of the Cloud Security Alliance
- Over 175 Security Controls in place to protect your data
- Enables compliance with security frameworks like PCI, HIPAA, NIST and more
- Earned SkyHigh's Cloud Trust Program highest ranking of Enterprise-Ready

## PRODUCT IMAGES



PART NUMBERS	DESCRIPTION
WR21-U92A-DE1-TA	Digi TransPort WR21 - Cellular (HSPA+ Global), Ethernet (2 Ports), Serial (1 RS-232/422/485 Port), Class 1 Division 2 (C1D2), Antennas included, Power Supply not included (International)
WR21-U92A-DE1-TB	Digi TransPort WR21 - Cellular (HSPA+ Global), Ethernet (2 Ports), Serial (1 RS-232/422/485 Port), Class 1 Division 2 (C1D2), Antennas & Power Supply not included
WR21-U92B-DE1-SB	Digi TransPort WR21 - Cellular (HSPA+ Global), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply not included (International)
WR21-U92B-DE1-SW	Digi TransPort WR21 - Cellular (HSPA+ Global), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply included (International)
WR21-L12A-DE1-TA	Digi TransPort WR21 - Cellular (4G LTE International), Ethernet (2 Ports), Serial (1 RS-232/422/485 Port), Class 1 Division 2 (C1D2), Antennas included, Power Supply not included (International)
WR21-L12B-DE1-SB	Digi TransPort WR21 - Cellular (4G LTE International), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply not included (International)
WR21-L12B-DE1-SW	Digi TransPort WR21 - Cellular (4G LTE International), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply included (International)
WR21-L52A-DE1-TA	Digi TransPort WR21 - Cellular (4G LTE Multi-Carrier Software Defined, North America), Ethernet (2 Ports), Serial (1 RS-232/422/485 Port), Class 1 Division 2 (C1D2), Antennas included, Power Supply not included
WR21-L52B-DE1-SB	Digi TransPort WR21 - Cellular (4G LTE Multi-Carrier Software Defined, North America), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply not included
WR21-L52B-DE1-SU	Digi TransPort WR21 - Cellular (4G LTE Multi-Carrier Software Defined, North America), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply included
WR21-L62A-DE1-TA	Digi TransPort WR21 - Cellular (4G LTE North America (AT&T and GSM Carriers)), Ethernet (2 Ports), Serial (1 RS-232/422/485 Port), Class 1 Division 2 (C1D2), Antennas included, Power Supply not included
WR21-L62B-DE1-SB	Digi TransPort WR21 - Cellular (4G LTE North America (AT&T and GSM Carriers)), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply not included
WR21-L62B-DE1-SU	Digi TransPort WR21 - Cellular (4G LTE North America (AT&T and GSM Carriers)), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply included
WR21-L82A-DE1-TB	Digi TransPort WR21 - Cellular (4G LTE Verizon), Ethernet (2 Ports), Serial (1 RS-232/422/485 Port), Class 1 Division 2 (C1D2), Antennas & Power Supply not included
WR21-L82B-DE1-SB	Digi TransPort WR21 - Cellular (4G LTE Verizon), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply not included
WR21-L82B-DE1-SU	Digi TransPort WR21 - Cellular (4G LTE Verizon), Ethernet (2 Ports), Serial (1 RS-232 Port), Antennas & Power Supply included
WR21-L52A-GE1-TA	Digi TransPort WR21 - Cellular (4G LTE Multi-Carrier Software Defined, North America), Ethernet (2 Ports), Serial (1 RS-232/422/485 Port), GPS, Class 1 Division 2 (C1D2), Antennas included, Power Supply not included

**DIGI SERVICE AND SUPPORT** / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit [www.digi.com/support](http://www.digi.com/support).

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