

Digi TransPort® WR21

Compact Enterprise Class Cellular Router

Compact, flexible, low-cost enterprise 2.5G/3G/4G cellular router for remote and mobile networking applications.



Overview

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 connectivity and is designed for Wide Area Network connectivity including 2.5G/3G/4G networks and beyond. Optional Gobi™ module provides true HSPA+/EV-DO carrier diversity in a single solution.

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

Digi TransPort WR21 is available in both standard routing and enterprise configurations. The standard version offers basic routing, NAT and security, while the enterprise version adds advanced routing, security/VPN and stateful firewall. Advanced features allow the Digi TransPort WR21 to be used as a component of a PCI compliant network.

Digi management solutions provide easy setup, configuration and maintenance of large installations of remote Digi TransPort devices. Device Cloud by Etherios™ offers web-based device management for remote Digi cellular routers and gateways. Also available is the windows based Digi Remote Manager™ for customer installed device management and reporting.

Related Products



VPN Concentrators

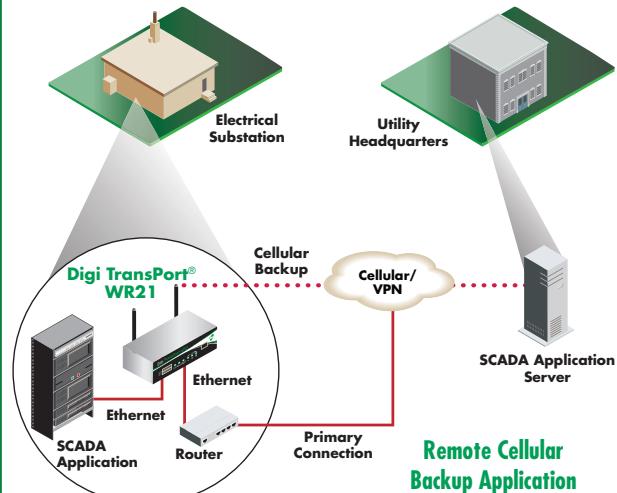


Digi Remote Management



Accessories

Application Highlight



Features/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, GSM:EDGE, 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 management software solutions, including the Device Cloud by Etherios, provide easy setup, configuration and maintenance of large installations



Specifications

Digi TransPort® WR21

| Wireless Interfaces | |
|-----------------------------------|--|
| WWAN** | |
| LTE - EMEA (L1) | 800/850/900/1800/1900/2100/2600MHz; 3G fall back to 850/900/1900/2100MHz and 2G fall back to 850/900/1800/1900MHz; Transfer Rate (max): 50 Mbps Up, 100 Mbps Down |
| LTE - North America (L5) | Multi-Carrier (Verizon, AT&T, and Sprint) 700/850/1700(AWS)/1900 MHz; 2G/3G GSM fall back to 850/900/1700AWS/1800/1900/2100MHz; 2G/3G CDMA fall back to 800/1900MHz; Transfer Rate (max): 50 Mbps Up, 100 Mbps Down |
| LTE - North America (L6) | 700/850/1700(AWS)/1900MHz; 2G/3G fall back to 850/1900MHz; Transfer Rate (max): 50 Mbps Up, 100 Mbps Down (Coming Summer 2014) |
| LTE - Verizon (L8) | 700/1700(AWS)MHz; No 2G/3G fall back; Transfer Rate (max): 50 Mbps Up, 100 Mbps Down (Coming Summer 2014) |
| LTE - Verizon (L9) | 700/1700(AWS)MHz; 3G fall back to 850/1900MHz; Transfer Rate (max): 50 Mbps Up, 100 Mbps Down (Coming Summer 2014) |
| HSPA+ (U9) | 850/900/1700 (AWS)/1900/2100MHz; Transfer Rate (max): 5.76 Mbps Up, 21 Mbps Down |
| Edge (E1) | GPRS/EDGE Class 10; 850/900/1800/1900 MHz; Transfer rate (max): 236 Kbps up/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): 153Kbps up/down |
| GSM-R (R5) | 900/1800/1900MHz (TRM-5); GPRS Class 10; Transfer rate (max): 42.8 Kbps Up, 85.6 Kbps Down 42.8 Kbps Up, 85.6 Kbps Down |
| Connectors | Ux, Lx variants: 2 x 50 Ω SMA (Center pin: female); E1, Dx, Bx variants: 1 x 50 Ω SMA (Center pin: female) |
| SIM Slots | 2 |
| SIM Security | Optional SIM slot cover plate |
| 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 |
| 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 | Option of 1 or 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 |
| Other | ////// |
| I/O and DSL | N/A |
| Software/Management | |
| Remote Management | Device Cloud by Etherios (cloud based); Digi Remote Manager (user installed/managed); 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 |
| Software Packages | Option of Standard or Enterprise. See next page for details. |
| Memory | 128 MB NAND Flash/128 MB DDR2 SDRAM |

** Transfer rates are theoretical and network operator dependent

Specifications

Digi TransPort® WR21

| Power | |
|------------------------------|---|
| Input | 9-30 VDC |
| Consumption | 6W max, 4W typical |
| Connector | Depending on model: Locking barrel or screw-down removable 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 |
| Battery Backup | None |
| 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)/ IP50 |
| Mounting | Brackets for wall mount & DIN rail sold separately |
| Environmental | |
| Operating Temperature *** | -35° C to +75° 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) | Optional |
| Conformal Coating | N/A |
| 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 www.digi.com 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 |

Software Packages

Enterprise

Standard

| | | |
|----------------------------|---|--|
| Protocols | Same as Standard plus Device Cloud; Dynamic DNS client compatible with BIND9/No-IP/DynDNS | HTTP, HTTPS, FTP, SFTP, SSL, SMTP, SNMP (v1/v2c/v3), SSH, Telnet and CLI for web management; remote management via software tool (option); SMS management, protocol analyzer, ability to capture PCAP for use with Wireshark; DynDNS |
| Security/VPN | Stateful inspection firewall with scripting, address and port translation; VPN: IPsec with IKEv1, IKEv2, NAT Traversal; SSL, SSLv2, SSLv3, FIPS 197, Open VPN client and server; PPTP, L2TP; VPN Tunnels included: WR11/WR21/WR41/WR44/WR44 R/WR44 RR: 5, WR44-DSL: 20; Maximum VPN Tunnels available: WR11/WR21: 5, WR41: 50, WR44/WR44 R/WR44 RR: 200; 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 | IP filtering |
| 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); IPv6 (firmware upgradable); RSTP (Rapid Spanning Tree Protocol); IP Failover: VRRP, VRRP+TM; Automatic failover/ fallback to second GSM network/Standby APN; Verizon NEMO/DMNR for Primary Wireless Access | IP pass-through NAT, NAPT with IP Port Forwarding |
| Other Protocols | DHCP; Dynamic DNS client compatible with BIND9/No-IP/DynDNS; QoS via TOS/DSCP/WRED | DHCP; Dynamic DNS client compatible with BIND9/No-IP/DynDNS |
| Specialty/Legacy Protocols | RealPort®; Modbus UDP/TCP to serial; X.25 including XOT, SNA/IP, TPAD and PAD; Protocol switch* | RealPort® |

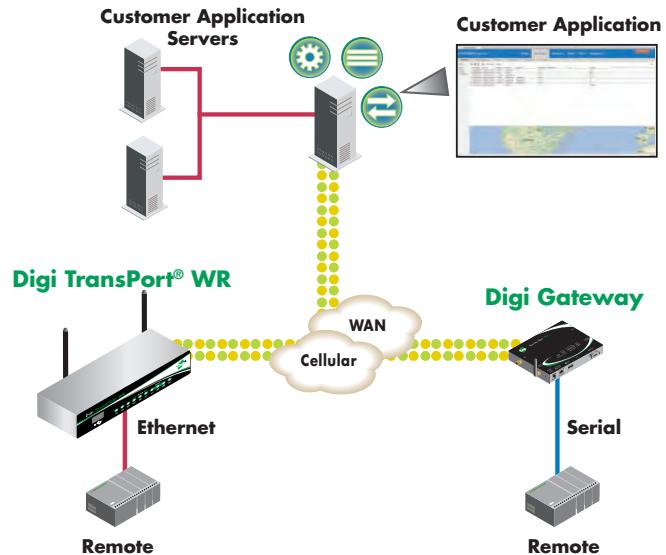
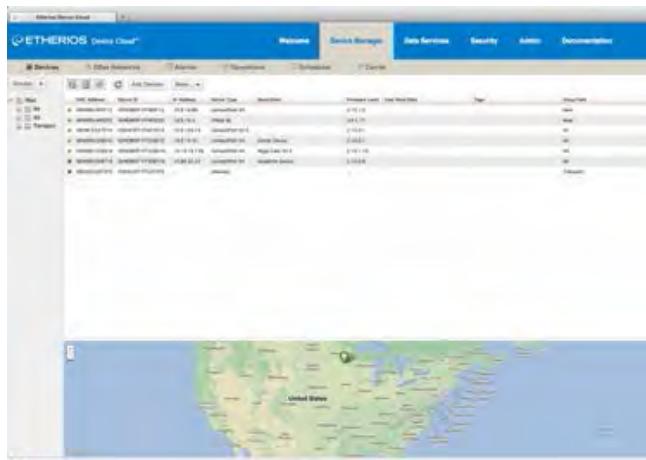
* Optional hardware

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

Device Management Features

- View of all remote devices and their connection status
- Automatic registration of newly connected devices
- Remote device configuration
- Actions include device grouping and scheduling of operations
- Monitoring of user specified events
- Device statistic and report generation
- Alarm generation and alerting
- Secure access to all devices from web browser, anywhere
- Remote reboot of device and default reset
- Remote device management with Device Cloud

Easy Remote Configuration and Management



Product Images

Digi TransPort WR21



Visit www.digi.com for part numbers.

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