



DIGI TRANSPORT® WR44 RR

Rugged, all-in-one cellular router with 3G/4G GPS. Designed for use on-board rail vehicles.

Digi TransPort WR44 RR is a rugged enterprise-class cellular router designed for rail environments. Its rail industry ratings, versatility, security features and performance make it ideal for applications such as Positive Train Control (PTC), wayside device communications and on-board passenger Internet access.

Digi TransPort WR44 RR provides a reliable primary high speed cellular network connection or can act as a secure backup connection to the existing railroad network. It features a flexible communications design with 3G/4G multicarrier cellular, plus integrated Wi-Fi ac/b/g/n; a/n

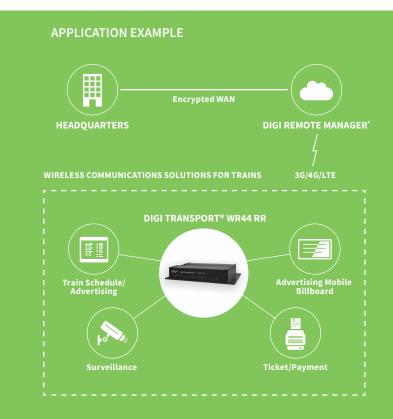
access point, serial and 4-port Ethernet switch. It also features full on-board train certifications, including AAR S-9401 and EN50155. Communications interfaces include hardened connectors, including M12 for Ethernet and serial, as well as TNC connectors for antenna connections.

Digi management solutions provide easy setup, configuration and maintenance of large installations of remote Digi TransPort devices. Digi Remote Manager® offers webbased device management for remote Digi cellular routers, gateways and third-party devices.

BENEFITS

- Heavy-duty enclosure and connectors designed for shock and high vibration environments
- Enterprise-class routing, VPN and firewall capabilities
- Optional integrated 802.11 ac/b/g/n; a/n Wi-Fi access point
- Dual SIM for carrier redundancy
- Cellular to Wi-Fi autoswitch
- Full on-board train certs including AAR S-9401 and EN50155
- Digi Remote Manager® provides mass configuration, device management and troubleshooting tools

RELATED PRODUCTS Digi TransPort* WR11 XT Digi TransPort* WR21 Digi TransPort* WR44 R Digi Remote Manager*



Digi TransPort® WR44 RR **SPECIFICATIONS** WIRELESS INTERFACES CELLULAR* LTE Advanced CAT 6: 700(B12,B13,B29)/800(B20,B26)/850(B5)/900(B8)/AWS(B4)/1800(B3)/1900(B2,B25)/ 2100(B1)/2300(B30)/2500(B41)/2600(B7) LTE - NORTH AMERICA/EMEA (M8) 3G HSPA+: 850/900/AWS/1800/1900/2100 MHz Transfer rate (max): 300 Mbps down, 150 Mbps up Approvals: PTCRB, AT&T, Verizon, Vodafone (pending) LTE-Advanced CAT 6: 700(B28)/850(B5,B18,B19)/900(B8)/1500(B21)/1800(B3)/1900(B39)/2100(B1)/ 2600(B7,B38)/2300(B40)/2500(B41) LTE - ANZ/LATAM (L9) 3G HSPA+: 800/850/900/1700/2100 MHz Transfer rate (max): 300 Mbps down, 150 Mbps up CONNECTOR (2) 50 Ω TNC (Center pin: female) SIM SLOTS (2) Mini-SIM (2FF) **SIM SECURITY** SIM slot cover plate WI-FI** **STANDARD** 802.11 ac/a/b/g/n 2.4/5 GHz **MODES** Access point, client and support for multiple SSID TRANSMIT POWER 16 - 22 dBm, +/- 2 dB RECEIVE SENSITIVITY 71 - 93 dBm, +/- 2dB **SECURITY** Open or shared key authentication; WEP (64- and 128-bit) encryption; WPA/WPA2 with RADIUS (WPA Enterprise and pre-shared keys) **CONNECTORS** (2) 50 Ω RP-TNC (Center pin: male) GPS** **CHANNELS** 50 **SENSITIVITY** -163 dB **PROTOCOL** NMEA 0183 V2.3 sentence output; +3.3 VDC active antenna drive; NMEA stream to local serial port or over TCP/IP **NAVIGATION** Galileo ready **AUGMENTATION** SBAS **COLD START** < 27 seconds TTFF (90%) HORIZONTAL ACCURACY < 2.5 meters (90%) **VELOCITY ACCURACY** 0.1m/s CONNECTOR (1) 50 Ω RP-TNC (Center pin: male) Send GPS via UDP/IP, TCP/IP (up to two destinations) or serial; Customize and/or send data using Python; GPS status query; ADDITIONAL FEATURES Time source capable WIRED INTERFACES SERIAL **PORTS** (1) 5-pin A-coded M12 female; DCE **STANDARD** RS-232 SIGNAL SUPPORT TXD, RXD, RTS, CTS, GND FLOW CONTROL Software (XON/XOFF), hardware supported **ETHERNET PORTS** (4) 10/100 Mbps (auto-sensing) CONNECTOR Option of 4-pin D-coded M12 female or 8-pin A-coded M12 female I/O DIGITAL I/O Input: 4 - 28 VDC; Output: 28 VDC 50 mA max CONNECTOR 4-pin A-coded M12 male (2 pins are used for I/O; the other 2 pins are used for DC power)



^{*} Transfer rates are network operator dependent.

^{**} Optional hardware.

SPECIFICATIONS	Digi TransPort® WR44 RR
MANAGEMENT	
REMOTE MANAGEMENT	Digi Remote Manager® (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/64 MB DDR2 SDRAM
POWER	
INPUT	9 – 36 VDC
CONSUMPTION	15W max, 8.5W typical
CONNECTOR	4-pin A-coded M12 male (2 pins are used for power; the other 2 pins are used for I/O)
DC POWER CORD**	4-pin A-coded M12 female to bare wire
PHYSICAL	
DIMENSIONS (L X W X H)	11.5 in x 6.65 in x 2.05 in (29.2 cm x 16.9 cm x 5.2 cm)
WEIGHT	5.7 lbs (2.6 kg)
STATUS LEDS	Power, LAN, Wi-Fi, Serial, WWAN (Link, Act, SIM), Signal strength
MATERIAL/RATING***	Aluminium alloy/ IP54
MOUNTING	(4) mounting slots on the unit's flange
ENVIRONMENTAL	
OPERATING TEMPERATURE	-40° C to +70° C; (Reduced cellular performance may occur above +60° C)
STORAGE TEMPERATURE	-40° C to +85° C
RELATIVE HUMIDITY	0% to 95% (non-condensing) @ 25° C
ETHERNET ISOLATION	2 kV RMS
SERIAL PORT PROTECTION (ESD)	10 kV
CONFORMAL COATING	Available upon request
APPROVALS	
CELLULAR	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511
CDMA/EV-DO	CDG TIA/EIA-690, CDG TIA/EIA-98-E
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
INDUSTRY	EN50155 (all variants); AAR S-9401 (select variants)
WARRANTY	
PRODUCT WARRANTY	3 years

ENTERPRISE SOFTWARE	DESCRIPTION
PROTOCOLS	HTTP, HTTPS, FTP, SFLP, 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	IP filtering, 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; (5) VPN tunnels (upgradable to a maximum of 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
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
OTHER PROTOCOLS	DHCP; Dynamic DNS client compatible with BIND9/No-IP/DynDNS; QoS via TOS/DSCP/WRED; Modbus UDP/TCP to serial; X.25 including XOT, SNA/IP, TPAD and PAD; Protocol switch; Modbus bridging for connecting diverse field assets



^{*} Optional hardware.
***The enclosure rating is self-declared and has not been formally verified by an independent lab.

DIGI REMOTE MANAGER®



INFRASTRUCTURE

- Hosted in a commercial-grade SAS 70-certified environment
- Superior availability, operating to 99.9% or greater
- Open APIs available to support application development

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

SECURITY

- Certified SSAE-16 and ISO27001 facilities
- 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	DIGI TRANSPORT WR44 RR
WR44-M8G4-AE1-MD	4G LTE North America/EMEA, Wi-Fi (802.11ac)
WR44-L9G4-AE1-MD	4G LTE LATAM/ANZ, Wi-Fi (802.11ac)

PART NUMBERS	ACCESSORIES*
76000983	WR44 RR Accessory Kit (Power Cord, Serial Cable, and Ethernet M12 Cables)

^{*}Sold separately, unless otherwise noted.

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.

© 1996-2018 Digi International Inc. All rights reserved. All trademarks are the property of their respective owners. DIGI INTERNATIONAL WORLDWIDE HQ 877-912-3444 / 952-912-3444 / www.digi.com

DIGI INTERNATIONAL GERMANY +49-89-540-428-0

DIGI INTERNATIONAL JAPAN +81-3-5428-0261 / www.digi-intl.co.jp DIGI INTERNATIONAL SINGAPORE +65-6213-5380

DIGI INTERNATIONAL CHINA +86-21-50492199 / www.digi.com.cn



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Modules Accessories category:

Click to view products by Digi International manufacturer:

Other Similar products are found below:

7010-0001 AX98219 A1UL8RISER F1UJPMICRISER FHW1U16RISER 20-101-0440 2828736-1 MBCDROM AX61221TM VM-105
EA CARREDIPTFT02 AMO-R022E RK-210E-B E226171106 88606200030E 8816K6400A0E SI-HDMI-EDID-EM MIC-75M13-00A1E
FPM-1000T-SMKE AMK-R004E 96FMCF-ST2ADAPTER1 AHWKPTP12GBGB AXXSTCPUCAR FPK-07-R10 Mini Din 6P to 6P
HARNESS 881261510A0E AXXP3SWX08080 conga-B7XD/CSP-Cu-B 881281021A0E HFT for mounting KIT FN928X_FN929X BBMH112-1A 15100600 9-5000-1116 70763 98R3612003E 881261910A0E 106897 48222R 20926110901 PYCASE GREEN PYCASE
BLUE 20952000004 DP-DVI-R10 575-BBIS RACK-220GW/A130B 492-BBKM IP411 70760 PICONYMPHGL 106896