DIGI TRANSPORT® WR44

Enterprise class, commercial grade Wi-Fi-to-cellular router with flexible interface options ideal for distributed branch applications

The Digi TransPort WR44 cellular router is an all-in-one branch networking solution with true enterprise-class routing, security and firewall. This multifunction cellular router features a flexible design with integrated Wi-Fi access point, USB, serial, 4-port Ethernet switch, with an optional serial expansion card.
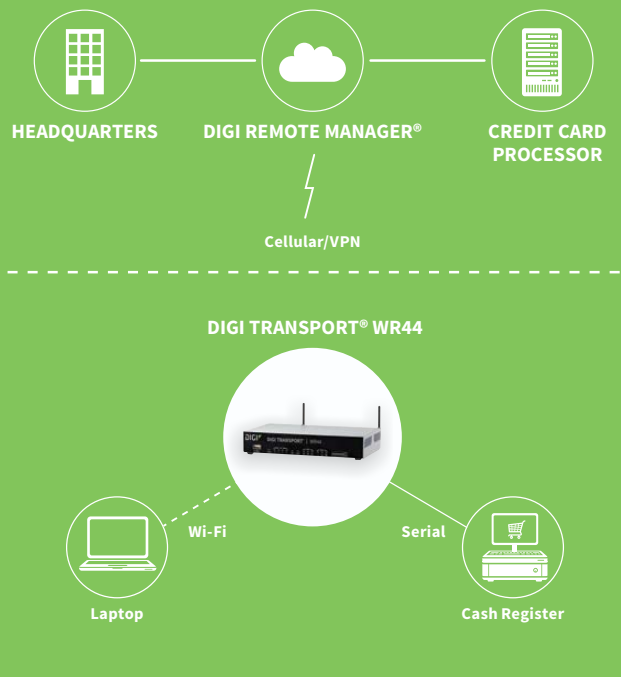
The Digi TransPort family offers an advanced routing, security and firewall feature set including stateful inspection firewall and integrated VPN. Enterprise-class protocols incorporate BGP, OSPF and VRRP+, a patented technology built upon the popular VRRP failover standard providing true auto sensing, auto failure and auto recovery of any line drop.

Digi TransPort WR44 is ideal for retail and utility applications. Flexible power options include 9–36 VDC barrel or Molex connectors for direct integration into DC power supplies. Digi Remote Manager® provides easy setup, configuration and maintenance of large installations of Digi TransPort and third-party devices.

BENEFITS

– Enterprise class cellular routers with advanced dynamic routing, security and firewall features

– High speed cellular interfaces: HSPA+ and 4G LTE

– Optional integrated 802.11 b/g/n; a/n Wi-Fi access point and 4-port Ethernet switch

– Flexible interfaces including serial with DC power options

– Powerful integrated end user programming

– Digi Remote Manager® provides mass configuration, device management and troubleshooting tools

APPLICATION EXAMPLE

HEADQUARTERS — DIGI REMOTE MANAGER® — CREDIT CARD PROCESSOR

Cellular/VPN

DIGI TRANSPORT® WR44

Wi-Fi — Laptop

Serial — Cash Register

RELATED PRODUCTS

Digi TransPort®
WR11

Digi TransPort®
WR21

Digi TransPort®
WR44 R

Accessories

Digi Remote
Manager®

WIRELESS INTERFACES

WWAN**

LTE - EMEA/APAC (L1)	LTE CAT 3: 800(B20)/850(B5)/900(B8)/1800(B3)/1900(B2)/2100(B1)/2600(B7) 3G HSPA+: 850/900/1900/2100 MHz 2G EDGE/GPRS: 850/900/1800/1900 MHz Transfer rate (max): 100 Mbps down, 50Mbps up Approvals: Vodafone
LTE - NORTH AMERICA (L5)	Software defined multi-carrier LTE CAT 3: 700(B13,B17)/850(B5)/AWS(B4)/1900(B2,B25) 3G HSPA+: 850/900/1700AWS/1900/2100 MHz 3G EVDO: 800/1900 MHz 2G EDGE/GPRS: 850/900/1800/1900 MHz 2G 1XRTT: 800/1900 MHz Transfer rate (max): 100 Mbps down, 50Mbps up Approvals: Verizon Private Network, DMNR and PNTM, AT&T, Sprint, Telus, Bell
CONNECTOR	(2) 50 Ω SMA (Center pin: female); (1) connector for non-LTE models
SIM SLOTS	(2) Mini-SIM (2FF)
SIM SECURITY	SIM slot cover plate optional

WI-FI*

STANDARD	802.11 b/g/n; a/n
MODES	Access point, Client and support for multiple SSID
TRANSMIT POWER	20 dBm + 1.0/-1.5 dBm
RECEIVE SENSITIVITY	54 Mbps / <-72 dBm and 11 Mbps / -90 dBm
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-SMA (Center pin: male)

WIRED INTERFACES

SERIAL

PORTS	(1) DB-9; DCE
STANDARD	RS-232
SIGNAL SUPPORT	TXD, RXD, RTS, CTS, DTR, DCD, DSR, RI
FLOW CONTROL	Software (XON/XOFF), Hardware supported

ETHERNET

PORTS	(4) RJ-45; 10/100 Mbps (auto-sensing)

USB

PORTS	(1) USB 2.0 Type A

SOFTWARE

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	Locking barrel and 4-pin terminal block (2 pins are used for power; the other 2 pins are used for I/O).
DC POWER CORD*	Locking barrel to bare wire or 4-pin connector to bare wire
DC POWER SUPPLY*	100-240 VAC 50/60 Hz; Option of standard temperature or extended temperature

* Optional hardware. Lead time and/or minimum order quantity may apply. Contact Digi Sales for details.
** Transfer rates are network operator dependent

SPECIFICATIONS	Digi TransPort® WR44
PHYSICAL	
DIMENSIONS (L X W X H)	5.7 in x 8.3 in x 1.6 in (145 mm x 210 mm x 40 mm)
WEIGHT	1.98 lb (0.9 kg)
STATUS LEDS	Power, LAN, Wi-Fi, Serial, WWAN (Link, Act, SIM), Signal strength
MATERIAL/RATING****	Industrial (Metal)/ IP30
MOUNTING	Brackets for wall mount & DIN rail sold separately
ENVIRONMENTAL	
OPERATING TEMPERATURE * **	0° C to +40° 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	1.5 kV RMS
SERIAL PORT PROTECTION (ESD)	15 kV
HAZARDOUS (CLASS 1 DIV 2)	N/A
CONFORMAL COATING	N/A
APPROVALS	
GSM/HSPA/LTE	PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511
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; (5) VPN Tunnels (upgradable to a maximum of 200); Cryptology: SHA-1, MD5, RSA; Encryption: DES, 3DES and AES up to 256-bit; 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
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.

** Transfer rates are network operator dependent

*** Standard temperature power supplies may reduce temperature range.

**** The enclosure rating is self-declared and has not been formally verified by an independent lab.

DIGI

DIGI REMOTE MANAGER®
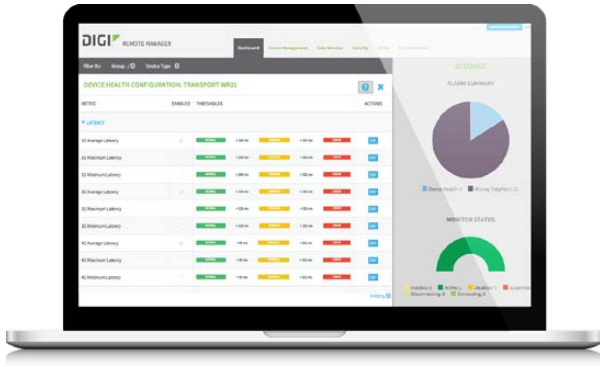
CAPABILITIES

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

SECURITY

– Certified SSAE-16 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
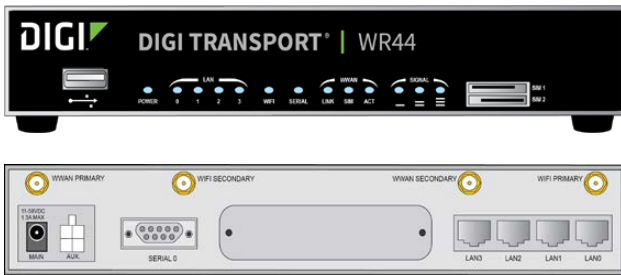
CONNECTOR
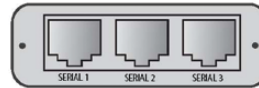
ASYNC SERIAL PORTS (A3)
(3) asynchronous RS-232 serial ports

PART NUMBERS	DESCRIPTION
WR44-L100-CE1-SW	4G LTE International, No Wi-Fi
WR44-L100-NE1-SW	4G LTE International, Wi-Fi
WR44-L500-CE1-SU	4G LTE Multi-Carrier Software Defined, North America, No Wi-Fi
WR44-L500-NE1-SU	4G LTE Multi-Carrier Software Defined, North America, Wi-Fi
WR44-L5A3-CE1-SU	4G LTE Multi-Carrier Software Defined, North America, No Wi-Fi, (3) Async RS-232 Ports