Digi TransPort® WR44 R

Enterprise Class Cellular Routers for Rugged Applications

All-in-one cellular router with advanced routing/VPN features, designed specifically for use in rugged environments.



Overview

The Digi TransPort WR44 R is a rugged, all-in-one 3G/4G mobile communications solution with true enterprise class routing, security and firewall. Featuring a heavy-duty cast aluminum enclosure, the Digi TransPort WR44 R offers a flexible interface design with an optional integrated Wi-Fi access point (with multi SSID), USB, serial and 4-port Ethernet switch, as well as a variety of configuration options including multiple serial ports (async or sync), GPS, GPS/CAN/IO or I/O only modules.

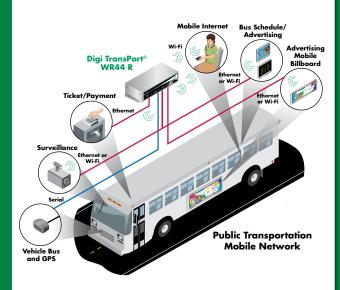
These routers are ideal for transportation and mobile applications. Flexible power options include 9-36 VDC locking barrel or automotive Molex connectors for direct integration into vehicle applications. Also ideal for mobile applications is the cellular to Wi-Fi autoswitch feature, which uses the highest speed/lowest cost WAN network available.

All Digi TransPort products offer an advanced routing, security and firewall feature set including stateful inspection firewall and integrated VPN. Enterprise class protocols incorporate BGP, OSPF and VRRP+. Advanced features allow the Digi TransPort to be used as a component of a PCI compliant network.

Digi's remote management solutions feature easy setup, configuration and maintenance of large installations of Digi TransPort devices.



Application Highlight



Features/Benefits

- Rugged, enterprise-class cellular routers with advanced dynamic routing, security and firewall features
- Heavy-duty cast aluminum enclosure for reliable performance in rugged environments
- Integrated 802.11b/g/n Wi-Fi access point (optional) and 4-port Ethernet switch
- Flexible interfaces including multiple serial, GPS, CAN, and telemetry I/O with flexible DC power options
- Cellular to Wi-Fi autoswitch feature automatically uses the highest speed/lowest cost WAN network available
- Digi's remote management solutions include software for easy setup, configuration and maintenance



Specifications	Digi TransPort® WR44 R			
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			
LTE - Verizon (L8)	700/1700(AWS)MHz; No 2G/3G fall back; Transfer Rate (max): 50 Mbps Up, 100 Mbps Down			
HSPA+ (U9)	850/900/1700 (AWS)/1900/2100MHz; Transfer Rate (max): 5.76 Mbps Up, 21 Mbps Down			
GSM-R (R5)	900/1800/1900MHz (TRM-5); GPRS Class 10; Transfer rate (max): 42.8 Kbps Up, 85.6 Kbps 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 1×RTT (Bx)	N/A			
Connector	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	SIM slot cover plate included			
Wi-Fi*				
Standard	802.11b/g/n; Option of dual Wi-Fi modules			
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 x 50 Ω RP-SMA (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%)			
Colu Start	< 27 seconds TTFF (90%)			
Horizontal Accuracy	< 27 seconds TTFF (90%) < 2.5 meters (90%)			
Horizontal Accuracy	< 2.5 meters (90%)			
Horizontal Accuracy Velocity Accuracy Connector Additional Features	< 2.5 meters (90%) 0.1m/s			
Horizontal Accuracy Velocity Accuracy Connector	< 2.5 meters (90%) 0.1m/s $1 \times 50 \ \Omega \ \text{SMA} \ (\text{Center pin: female})$ 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			
Horizontal Accuracy Velocity Accuracy Connector Additional Features	< 2.5 meters (90%) 0.1m/s $1 \times 50 \Omega$ SMA (Center pin: female) 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			
Horizontal Accuracy Velocity Accuracy Connector Additional Features Other	< 2.5 meters (90%) 0.1m/s $1 \times 50 \Omega$ SMA (Center pin: female) 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			
Horizontal Accuracy Velocity Accuracy Connector Additional Features Other	$< 2.5 \text{ meters (90\%)}$ 0.1m/s $1 \times 50 \ \Omega \text{ SMA (Center pin: female)}$ 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 N/A			
Horizontal Accuracy Velocity Accuracy Connector Additional Features Other XBee Satellite	$< 2.5 \text{ meters (90\%)}$ 0.1m/s $1 \times 50 \ \Omega \text{ SMA (Center pin: female)}$ 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 N/A			
Horizontal Accuracy Velocity Accuracy Connector Additional Features Other XBee Satellite Wired Interfaces	$< 2.5 \text{ meters (90\%)}$ 0.1m/s $1 \times 50 \ \Omega \text{ SMA (Center pin: female)}$ 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 N/A			
Horizontal Accuracy Velocity Accuracy Connector Additional Features Other XBee Satellite Wired Interfaces Serial	< 2.5 meters (90%) 0.1m/s 1 x 50 Ω SMA (Center pin: female) 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 N/A N/A N/A			
Horizontal Accuracy Velocity Accuracy Connector Additional Features Other XBee Satellite Wired Interfaces Serial Ports	< 2.5 meters (90%) 0.1m/s 1 x 50 \Omega SMA (Center pin: female) 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 N/A N/A 1; Expansion cards available to increase serial ports			
Horizontal Accuracy Velocity Accuracy Connector Additional Features Other XBee Satellite Wired Interfaces Serial Ports Standard	< 2.5 meters (90%) 0.1m/s 1 x 50 Ω SMA (Center pin: female) 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 N/A N/A N/A 1; Expansion cards available to increase serial ports RS-232; Expansion cards available in RS-422/485			
Horizontal Accuracy Velocity Accuracy Connector Additional Features Other XBee Satellite Wired Interfaces Serial Ports Standard Async/Sync	< 2.5 meters (90%) 0.1m/s 1 x 50 Ω SMA (Center pin: female) 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 N/A N/A N/A 1; Expansion cards available to increase serial ports RS-232; Expansion cards available in RS-422/485 Async; Expansion cards available in sync			

^{*} Optional hardware

** Transfer rates are network operator dependent

*** Reduced cellular performance may occur outside of -20° C to +50° C. Standard temperature power supplies may reduce temperature range.

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

Wired Interfaces Serial (Continued) Serial (C	Specifications	Digi TransPort® WR44 R				
Serial (Continued) COM Port Redirector Connector DB-9 female Ethernet Standard/Physical Layer Data Rate/Mode/Interface Connector DB-9 female 19[18 802.3; 10/100 Base-T Data Rate/Mode/Interface 10/100 Mbit/s; full or Half duptor; Auto MOI/MDIX Connector RJ-45 VO Digital I/O Bigital I/O Input 4 - 28 VIC / Output: 28 VIC 50 mA max Connector A-pin Molex (1 pin for input; 1 pin for I/O; the other 2 pins are used for DC power) USB Ports 1 Standard USB 2.0 Signaling Full- or low-speed Connector Type A DSL* Fethnology VDSL2-, ADSL2-,						
COM Port Redirector Connector D8-9 female Ethernet Ports 4 Standard/Physical Layer Data Rate/Mode/Interface Connector D8-9 female 10/100 Mbit/s; Full or Half duplex; Auto MDI/MDIX Connector R3-45 1/0 Digital 1/0 Digital 1/0 Digital 1/0 Standard A-pin Molax (1 pin for input; 1 pin for 1/0; the other 2 pins are used for DC power) Standard St						
Connector D8-9 Female		RealPort®				
Ports						
Ports 4 Standard/Physical Layer IEEE 802.3; 10/100 Base-T Data Rate/Mode/Interface 10/100 Mbit/s; Full or Half duplex; Auto MDI/MDIX Connector R.3.45 Viv USBURD SIDE AND MANAX Connector 3 Pay 100 Molex (1 pin for input; 1 pin for I/O; the other 2 pins are used for DC power) USBURD SIDE AND MANAX Ports 1 Standard 1 Standard 1058 2.0 Signaling Full- or low-speed Connector Type A DSL Technology VDSL2, ADSL2+, ADSL2, ADSL Standard Option of Annex A/M or B Connector RFC 2364 PPP0A, RFC 2516 PPP0E, RFC 2684 Bridged Ethemete, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Connector Reparation Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Connector Connector Connector RFC 2364 PPPP0A, RFC 2516 PPP0E, RFC 2684 Bridged Ethemete, RFC 1483 Routed IP (all either LLC						
Standard/Physical Layer Data Rate/Mode/Interface 10/100 Mbit/s; Full or Half duplex; Auto MDI/MDIX Connector R3-45 1/0 Digital I/O Input 4 - 28 VDC / Output: 28 VDC 50 mA max Connector 4-pin Molex (1 pin for input: 1 pin for I/O; the other 2 pins are used for DC power) USB Ports 1 Standard USB 2.0 Signaling Full- or low-speed Connector Type A SSL: Technology VDSL2, ADSL2+, ADSL2, ADSL2, ADSL Standard Option of Annex A/M or B Connector R3-11 Protocol RFC 2364 PPPOA, RFC 2516 PPPOE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GFS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager** (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Local Management/ Troubleshooting Tools Programming Tools/ Programming Tools/ Programming Tools/						
Data Rate/Mode/Interface 10/100 Mbit/s; Full or Half duplex; Auto MDI/MDIX R3-45 I/O Digital I/O Input 4 - 28 VDC / Output: 28 VDC 50 mA max Connector 4-pin Molex (1 pin for input: 1 pin for I/O; the other 2 pins are used for DC power) USS Ports 1 Standard USB 2.0 Signaling Full- or low-speed Connector Type A DSL* Technology VDSL2, ADSL2, ADSL2, ADSL2 Standard Option of Annex A/M or B Connector R3-11 Protocol RFC 2364 PPPOA, RFC 2516 PPPOE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fileet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager** (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Management/ Troubleshooting Tools FTP, SFTP, SCP, Protocol Analyzer with PCAP for Wireshark, Event Logging with Syslog and SMTP, NTP/SNTP Programming Tools/						
Connector R.3-45 I/O Digital I/O Input 4 - 28 VDC / Output: 28 VDC 50 mA max Connector 4-pin Molex (1 pin for input; 1 pin for I/O; the other 2 pins are used for DC power) USB Ports 1 Standard USB 2.0 Signaling Full- or low-speed Connector Type A DSL* Technology VDSL2, ADSL2, ADSL2, ADSL2, ADSL Standard Option of Annex A/M or B Connector RJ-11 Protocol RFC 2364 PPPOA, RFC 2516 PPPOE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Device Cloud (cloud based); Digi Remote Manager" (user installed/managed); SMMP v1/v2c/v3 (user installed/managed) Management/ Troubleshooting Tools Programming Tools/ Programming Tools/ Programming Tools/						
Digital I/O Input 4 - 28 VDC / Output: 28 VDC 50 mA max Connector 4-pin Molex (1 pin for input; 1 pin for I/O; the other 2 pins are used for DC power) USB Ports 1 Standard USB 2.0 Signaling Full- or low-speed Connector Type A DSL* Technology VDSL2, ADSL2, ADSL2, ADSL2, ADSL Standard Option of Annex A/M or B Connector RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Local Management/ Troubleshooting Tools Programming Tools/ Programming Tools/	, ,					
Connector 4-pin Molex (1 pin for input; 1 pin for I/O; the other 2 pins are used for DC power) USB Ports 1 Standard USB 2.0 Signaling Full- or low-speed Connector Type A DSL* Technology VDSL2, ADSL2, ADSL2, ADSL2, ADSL2 Standard Option of Annex A/M or B Connector RFC 2364 PPPOA, RFC 2516 PPPOE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, Reet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Web Interface (HTTP/HTTPS); CLI (Telnet, SSH, SMS, Serial port) Management/ Troubleshooting Tools Programming Tools/ Programming Tools/ Programming Tools/ PReparaming Tools/ PREPAR DEA DIA Diai ESD™						
Connector 4-pin Molex (1 pin for input; 1 pin for I/O; the other 2 pins are used for DC power) USB Ports 1 Standard USB 2.0 Signaling Full- or low-speed Connector Type A DSL* Technology VDSL2, ADSL2, ADSL2, ADSL2, ADSL2 Standard Option of Annex A/M or B Connector RFC 2364 PPPOA, RFC 2516 PPPOE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, Reet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Web Interface (HTTP/HTTPS); CLI (Telnet, SSH, SMS, Serial port) Management/ Troubleshooting Tools Programming Tools/ Programming Tools/ Programming Tools/ PReparaming Tools/ PREPAR DEA DIA Diai ESD™		Input 4 - 28 VDC / Output: 28 VDC 50 mA max				
Ports 1 Standard USB 2.0 Signaling Full- or low-speed Connector Type A DSL* Technology VDSL2, ADSL2+, ADSL2, ADSL Standard Option of Annex A/M or B Connector RJ-11 Protocol RFC 2364 PPPOA, RFC 2516 PPPOE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Local Management/ Troubleshooting Tools Programming Tools/ Programming Tools/ Programming Tools/ Programming Tools/						
Ports 1 Standard USB 2.0 Signaling Full- or low-speed Connector Type A Technology VDSL2, ADSL2, ADSL2, ADSL Standard Option of Annex A/M or B Connector RJ-11 Protocol RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Local Management/ Troubleshooting Tools TFP, SFTP, SCP, Protocol Analyzer with PCAP for Wireshark, Event Logging with Syslog and SMTP, NTP/SNTP Programming Tools/ Pethon DIA Digit ESP™	USB					
Signaling Full- or low-speed Connector Type A DSL* Technology VDSL2, ADSL2+, ADSL2, ADSL Standard Option of Annex A/M or B Connector RJ-11 Protocol RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Local Management Type A Programming Tools/ Pethon DIA Digi ESP™	Ports					
Type A DSL* Technology VDSL2, ADSL2+, ADSL2, ADSL Standard Option of Annex A/M or B Connector RJ-11 Protocol RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Local Management/ Troubleshooting Tools Programming Tools/ Pethon DTA Digi ESP™	Standard					
Technology VDSL2, ADSL2+, ADSL2, ADSL Standard Option of Annex A/M or B Connector RJ-11 Protocol RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Local Management/ Troubleshooting Tools Programming Tools/ Puthon DIA Digit ESP™	Signaling					
Technology VDSL2, ADSL2+, ADSL2+, ADSL2, ADSL Standard Option of Annex A/M or B Connector RJ-11 Protocol RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Local Management/ Troubleshooting Tools Programming Tools/ Programming Tools/	Connector					
Standard Option of Annex A/M or B Connector RJ-11 Protocol RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed) Local Management/ Troubleshooting Tools Programming Tools/ Programming Tools/ Pethon DIA Digi ESP™	DSL*					
Connector RJ-11 Protocol RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (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 Programming Tools/ Programming Tools/	Technology	VDSL2, ADSL2+, ADSL2, ADSL				
Protocol RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (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 Programming Tools/ Puthon DIA Digi FSP™	Standard	Option of Annex A/M or B				
Other Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (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 Programming Tools/ Python DIA Digi FSP™	Connector					
Expansion Cards Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ. Software/Management Remote Management Device Cloud (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 Programming Tools/ Python, DTA, Digi ESP™	Protocol	RFC 2364 PPPoA, RFC 2516 PPPoE, RFC 2684 Bridged Ethernet, RFC 1483 Routed IP (all either LLC or VC-Mux); PPP and ATM PVC support				
Software/Management Remote Management Device Cloud (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 Programming Tools/ Puthon DIA Digi ESP™	Other					
Remote Management Device Cloud (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 Programming Tools/ Python, DTA, Digi ESP™	Expansion Cards	Optional expansion cards available for GPS, fleet, telemetry (digital/analog I/O), ISDN/PSTN, serial and DialServ.				
Local Management Web Interface (HTTP/HTTPS); CLI (Telnet, SSH, SMS, Serial port) Management/ Troubleshooting Tools Programming Tools/ Programming Tools/ Programming Tools/	Software/Management					
Management/ Troubleshooting Tools FTP, SFTP, SCP, Protocol Analyzer with PCAP for Wireshark, Event Logging with Syslog and SMTP, NTP/SNTP Programming Tools/ Python, DTA, Digi ESP.**	Remote Management	Device Cloud (cloud based); Digi Remote Manager™ (user installed/managed); SNMP v1/v2c/v3 (user installed/managed)				
Troubleshooting Tools Programming Tools/ Python, DTA, Digi ESP™	Local Management	Web Interface (HTTP/HTTPS); CLI (Telnet, SSH, SMS, Serial port)				
		FTP, SFTP, SCP, Protocol Analyzer with PCAP for Wireshark, Event Logging with Syslog and SMTP, NTP/SNTP				
		Python, DIA, Digi ESP™				
Software Packages (See next page for details) Enterprise		Enterprise				
Memory 128 MB NAND Flash/64 MB DDR2 SDRAM	Memory	128 MB NAND Flash/64 MB DDR2 SDRAM				
Power	Power					
Input 9 – 36 VDC	Input	9 – 36 VDC				
Consumption 15W max, 8.5W typical	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).	Connector	Locking barrel and 4-pin terminal block (2 pins are used for power; the other 2 pins are used for I/0).				
DC Power Cord* Locking barrel to bare wire or 4-pin connector to bare wire	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	DC Power Supply*					
Battery Backup None	11.1					

^{*} Optional hardware

** Transfer rates are network operator dependent

*** Reduced cellular performance may occur outside of -20° C to +50° C. Standard temperature power supplies may reduce temperature range.

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

Specifications	Digi TransPort® WR44 R		
Power			
Dimensions (L x W x H)	5.5 in x 10 in x 1.9 in (140 mm x 254 mm x 48 mm)		
Weight	2.4 lbs (1.1 kg)		
Status LEDs	Power, LAN, Wi-Fi, Serial/DSL, WWAN (Link, Act, SIM), Signal strength		
Material/Rating****	Aluminium Alloy/ IP30		
Mounting	4x mounting slots on the unit's flange		
Environmental			
Operating Temperature *** ‡	Non-Wi-Fi varients: -40° C to +60° C Wi-Fi varients: -20° C to +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/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.		
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 (WR44 models with VDSL are Class A)		
Industry	E-Marking (72/245/EEC, 2009/19/EC); Automotive Non-Immunity (2004/104/ EC, 2005/49/EC, 2005/83/EC, 2006/28/EC); ISO7637-2 Class C, EN 300 019-2-5 (Specification for environmental tests for ground vehicle installations - covers temperature, humidity, vibration and shock)		
Warranty			
Product Warranty	3 years		

Software Packages	Enterprise	
Protocols	Same as Standard plus Device Cloud by Etherios™; 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, SSLv3, FIPS 197, Open VPN client and server; PPTP, L2TP; VPN Tunnels: 5 included. Additional available: WR21 (5 max.), WR41 (50 max.), WR44/WR44R/WR44RR (200 max.); 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); IPv6 (firmware upgradable); 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	
Specialty/Legacy Protocols	RealPort®; Modbus UDP/TCP to serial; X.25 including XOT, SNA/IP, TPAD and PAD; Protocol switch*	

^{*} Optional hardware

** Transfer rates are network operator dependent

*** Reduced cellular performance may occur outside of -20° C to +50° C. Standard temperature power supplies may reduce temperature range.

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

‡ Product specifications for operating temperature updated on February 5, 2015 and applies to current versions of the product currently in the field.

Expansion Cards	Connector	Specification		
O WAT SECONDARY WAT SECONDARY WAT PRIMARY LANS LAN				
Sync/Async Serial Port (S1)	1 x DB-25	X.21/RS-422/RS-232 synchronous/ asynchronous serial port		
Async Serial Ports (A3)	3 x RJ-45	3x asynchronous RS-232 serial ports		
PSTN (P1)	1 x RJ-45	PSTN interface that can be used to dial out and receive calls. A PPP session is created over which IP traffic can be sent and received.		
DialServ (P3)	1 x RJ-11 (FXS)	Dial tone simulator to emulate local telco.		
ISDN (I1)	1 x RJ-45	ISDN Basic Rate Interface (BRI) which can be configured either as a TE (terminal endpoint) or as NT-1 (network termination). The option also includes an additional asynchronous serial port via a second RJ-45 port.		
ISDN-U/PSTN (I3)	1 x RJ-11, 1 x RJ-45	ISDN-U interface suitable for the USA plus PSTN interface. Can be configured for Bell-103 modulation in leased line mode as well as a normal PSTN interface.		
Telemetry 1 (T1)	1 x 14-pin terminal block	4 x Opto-isolated digital output ports and 1 x Opto-isolated digital input port. It also provides a relay I/O port, voltage monitoring port, and internal temperature monitoring. Fully programmable via Python for embedded Digi TransPort applications.		
Telemetry 2 (T2)	1 x 14-pin terminal block	4 x Analog and 4 x Digital I/O ports fully programmable via Python for embedded Digi TransPort applications.		
GPS (G1)	1x SMA	Fully-integrated GPS tracking. See main specifications area for details.		
Fleet (F1)	1 x 4-pin, 1 x 15-pin, 1 x SMA	Flexible transportation/fleet focused applications requiring CAN bus, J1708, GPS, Non-isolated digital I/O, Ignition Sense, 3-Axis accelerometer, and power control of Digi TransPort interfaces. Fully programmable via Python for embedded Digi TransPort applications.		

Remote Troubleshooting and Configuration Management



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

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 & maintain
- Complete tasks for your entire device network in minutes
- Edit configurations & 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
- 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



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

91001643 C11/215