



4G LTE
M2M ROUTER



DIGI TRANSPORT WR31

Intelligent 4G LTE router designed for critical infrastructure and industrial applications

Digi TransPort® WR31 is an intelligent 4G LTE router designed for performance and reliability across a range of critical infrastructure and industrial applications. It provides a secure, reliable connection to industrial controllers, process automation equipment and smart grid assets on third party sites or remote locations. Software-defined, multi-carrier networking and global LTE and HSPA+ options make it easy to get connected. This drop-in connectivity gives operators a way to reduce downtime and service calls, and also increase revenue by bringing distributed sites online faster.

Ideal for connecting:

- Building and process automation controllers
- Smart grid assets (meters, switches, controllers)
- IP cameras and access controllers
- Remote data loggers, flow meters and sensing equipment
- Telco infrastructure
- Traffic and obstruction lighting

BENEFITS

- Global HSPA+ and 4G LTE support and certification on major carrier networks around the world
- Ethernet, serial I/O and Modbus bridging
- Extremely resilient cellular connection through Digi's patented SureLink™, VRRP+ protocol and dual SIM slots
- Dedicated GNSS Receiver supporting GPS, GLONASS, BeiDou, Galileo
- License-free enterprise software: VPN, firewall, logging and authentication
- Digi Remote Manager® device management tool
- Rugged enclosure, optimized for DIN rail or shelf mounting
- C1D2 and ATEX rated; NEMA TS2 temperature rated
- Digi Foundations™ 1-, 3- or 5-year subscription available

RELATED PRODUCTS



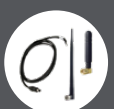
Digi TransPort®
WR21



Digi TransPort®
WR44 R



Digi Connect®
Sensor+

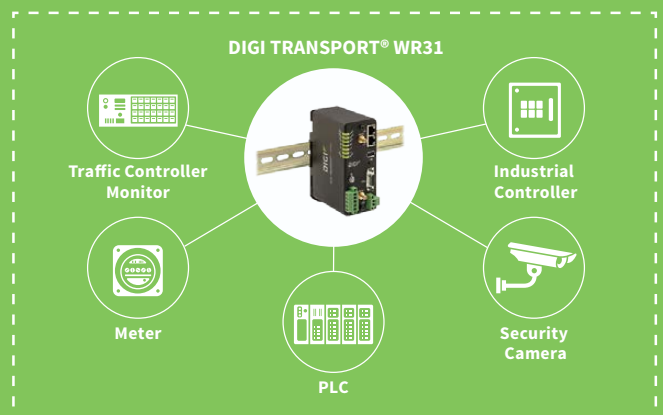
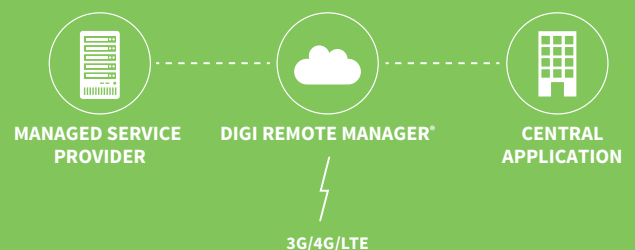


Accessories



Digi Remote
Manager®

APPLICATION EXAMPLE



SPECIFICATIONS

Digi TransPort® WR31

WIRELESS INTERFACES

CELLULAR

LTE - ANZ/LATAM (L9)

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)
 3G HSPA+: 800/850/900/1700/2100 MHz
 Transfer rate (max): 300 Mbps down, 50 Mbps up
 GNSS: 30 channels (16 GPS, 14 GLONASS) simultaneous tracking

LTE - NORTH AMERICA (M8)

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)
 3G HSPA+: 850/900/AWS/1800/1900/2100 MHz
 Transfer rate (max): 300 Mbps down, 50 Mbps up
 GNSS: 30 channels (16 GPS, 14 GLONASS) simultaneous tracking

LTE - NORTH AMERICA (M5)

LTE Cat 4: 700(B12,13)/850(B5)/AWS(B4)/1900(B2)
 3G HSPA+: 850/1900 MHz
 Transfer rate (max): 150 Mbps down, 50 Mbps up

LTE - EMEA/APAC (M7)

LTE Cat 4: 800(B20)/900(B8)/1800(B3)/2100(B1)/2600(B7)
 HSPA: 900/2100 MHz
 EDGE: 900/1800 MHz
 Transfer rate (max): 150 Mbps down, 50 Mbps up

LTE 450 - EMEA/APAC (M2)

LTE Cat 3: 450(B31)/800(B20)/1800(B3)/2600 (B7)
 HSPA+: 900/2100 MHz
 EDGE: 900/1800 MHz
 Transfer rate (max): 100 Mbps down, 50 Mbps up

GLOBAL HSPA+ (U9)

3G HSPA+: 850/900/1700AWS/1900/2100 MHz
 2G EDGE/GPRS: 850/900/1800/1900 MHz
 Transfer rate (max): 21 Mbps down, 5.76 Mbps up

CDMA EV-DO 450 MHZ - EMEA (D5)

3G EVDO Rev B: 450 MHz
 2G 1XRTT: 450 MHz
 Transfer rate (max): 14.7 Mbps down, 5.4 Mbps up

CONNECTORS

(2) 50 Ω SMA (center pin: female)

SIM SLOTS

(2) Mini-SIM (2FF)

SIM SECURITY

Screw-down SIM cover

GNSS (SELECT MODELS)

Protocol NMEA 0183 V3.0
 Acquisition Time Hot Start 1 s; Warm Start 29 s; Cold Start 32 s
 Accuracy Horizontal: < 2 m (50%), < 5 m (90%); Altitude: < 4 m (50%), < 8 m (90%); Velocity: < 0.2 m/s

SOFTWARE & MANAGEMENT

REMOTE MANAGEMENT

Digi Remote Manager® (cloud based); SNMP v1/v2c/v3 (user installed/managed)

LOCAL MANAGEMENT

WebUI (HTTP/HTTPS); CLI (Telnet, SSH, SMS)

MANAGEMENT/
TROUBLESHOOTING TOOLS

FTP, SFTP, SCP; protocol analyzer with PCAP for Wireshark; event logging with Syslog and SMTP; NTP/SNTP

WIRED INTERFACES

ETHERNET

PORTS

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

SERIAL

PORTS

(1) DB-9; DCE

STANDARD

RS-232/422/485

SIGNAL SUPPORT

TXD, RXD, RTS, CTS, DTR, DCD, DSR, RI

FLOW CONTROL

Software (XON/XOFF), hardware supported

I/O

CONNECTOR

5-pin screw down terminal block

DIGITAL

0-30 VDC, 200 mA max.; (2) I/O, software -selectable

ANALOG

(1) analog I/O; 4-20 mA or 0-10V, software selectable; 12 bit resolution

USB

PORTS

(1) USB 2.0 Type A

PHYSICAL

DIMENSIONS (L X W X H)

12.7 cm x 8.9 cm x 5.1 cm (5 in x 3.5 in x 2 in)

WEIGHT

.5 kg (1.1 lb.)

STATUS LEDS

Power, service, WWAN, 3x signal strength, user programmable

ENCLOSURE/RATING

Aluminum / IP30

MOUNTING

DIN rail mount included

SPECIFICATIONS

Digi TransPort® WR31

POWER REQUIREMENTS

POWER INPUT	9 – 30 VDC, 18 W min power source required
POWER CONNECTOR	Screw down removable terminal block
POWER CONSUMPTION	4 W typical (Idle); 12 W typical (Peak Tx/Rx)

ENVIRONMENTAL

HAZARDOUS (CLASS 1 DIV 2)	Yes
OPERATING TEMPERATURE	-34° C to 74° C (-29° F to 165° F); reduced cellular performance may occur above 60° C (140° F)
STORAGE TEMPERATURE	-40° C to 85° C (-40° F to 185° F)
ETHERNET ISOLATION	1.5 kV RMS
SERIAL PORT PROTECTION (ESD)	15 kV
RELATIVE HUMIDITY	5% to 95% (non-condensing)

APPROVALS

CELLULAR	PTCRB
SAFETY	Hazardous locations: ANSI/ISA-12.12.01-2015, CAN/CSA C22.2 NO.213-15 Ordinary locations: UL 60950-1, 2nd Edition, 2014-10-14; UL 62368: 2014, 2nd Edition ATEX standards: Protection method  II 3 G Ex nA IIC T4 Gc EN 60079-0:2012+A11:2013, EN 60079-15:2010, DEMKO 15 ATEX 1574X Rev. 1
IECEX STANDARDS	US/UL/ExTR17.0077/00
EMISSIONS/IMMUNITY	CE, FCC Part 15 Class B, AS/NZS CISPR 22, EN55024, EN55022 Class B

WARRANTY

PRODUCT WARRANTY	3-year + Digi Foundations*
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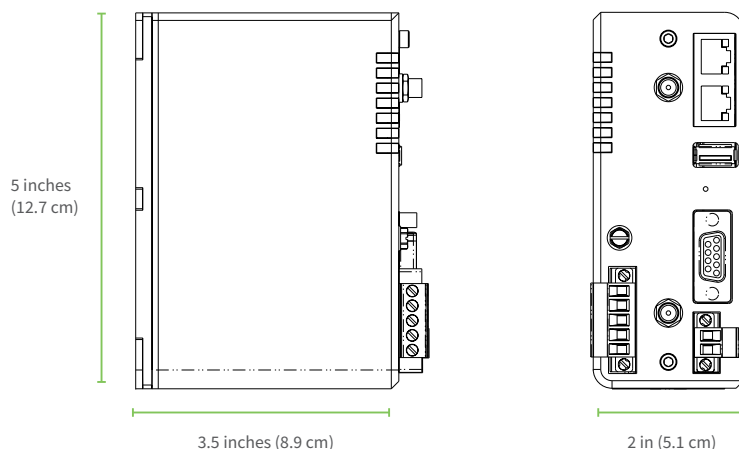
*Digi Foundations can extend the standard three-year warranty to a Limited Lifetime Warranty that provides replacement with a new or similar Digi product for a period of five years from the date of purchase. After five years from the purchase date, the warranty value will revert to a 40 percent credit towards the MSRP of an equivalent product from Digi.

ENTERPRISE SOFTWARE

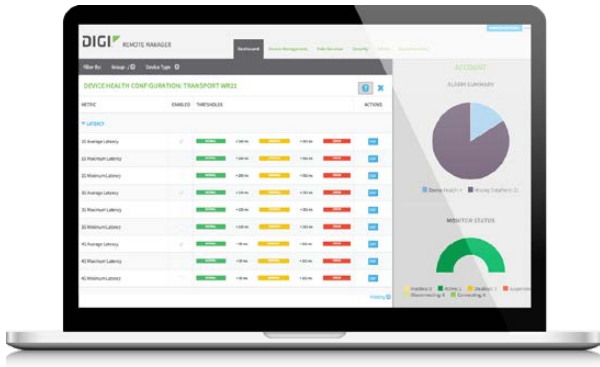
DESCRIPTION

PROTOCOL SUPPORT	HTTP, HTTPS, FTP, SFTP, SSL, SNMP, 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, SSLv3, FIPS 197, Open VPN client and server; PPTP, L2TP; (5) VPN tunnels (not upgradable); 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); IP failover: VRRP, VRRP+TM; automatic failover/failback to second GSM network/standby APN
OTHER PROTOCOLS	DDHCP; 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

PRODUCT IMAGES



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 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
- PCI certified; Attestation of Compliance

DIGI FOUNDATIONS™



IT'S TIME TO CONNECT WITH CONFIDENCE

The convenient, comprehensive and secure way to integrate IoT communications hardware, device management software, global support and lifetime warranty protection into a connectivity solution to simplify your IoT network growth.

- [Digi Remote Manager®](#) (DRM) gives you a single point of contact, command and control with sophisticated remote device monitoring and management tools.
- [Digi Expert Support](#) is available around the clock, seven days a week, around the world with experts ready to provide technical support by phone, email or online.
- [Digi Limited Lifetime Warranty](#) lowers the total cost of ownership with hardware protection and equipment upgrades to expand your network as needs evolve.

Digi Foundations, with DRM, simplifies network and device management – for hundreds or hundreds-of-thousands of Digi or third-party devices – with options to upgrade as technology evolves. Isn't it time you got better connected?

For more information visit: digi.com/foundations

PART NUMBERS	DIGI TRANSPORT WR31
WR31-M82A-DE1-TB	Digi TransPort WR31 - 4G LTE North America/EMEA, dual Ethernet, RS-232/422/485, Class 1 Div 2 (C1D2)
WR31-L92A-DE1-TB	Digi TransPort WR31 - 4G LTE LATAM/ANZ, dual Ethernet, RS-232/422/485, ATEX
WR31-M52A-DE1-TB	Digi TransPort WR31 - 4G LTE North America, dual Ethernet, RS-232/422/485, Class 1 Div 2 (C1D2)
WR31-M72A-DE1-TB	Digi TransPort WR31 - 4G LTE EMEA/APAC, dual Ethernet, RS-232/422/485, ATEX
WR31-M22A-DE1-TB	Digi TransPort WR31 - 4G LTE EMEA/APAC (450MHz), dual Ethernet, RS-232/422/485, ATEX
WR31-U92A-DE1-TB	Digi TransPort WR31 - HSPA+ Global, dual Ethernet, RS-232/422/485, Class 1 Div 2 (C1D2)
WR31-D52A-DE1-TB	Digi TransPort WR31 - CDMA 450MHz, dual Ethernet, RS-232/422/485, ATEX

DIGI FOUNDATIONS™	AVAILABLE FOR DIGI TRANSPORT WR31
DGF-BDL-STAN-1YR	Digi Foundations add-on, 1 year, includes Expert Support, Digi Remote Manager, and Limited Lifetime Warranty
DGF-BDL-STAN-3YR	Digi Foundations add-on, 3 years, includes Expert Support, Digi Remote Manager, and Limited Lifetime Warranty
DGF-BDL-STAN-5YR	Digi Foundations add-on, 5 years, includes Expert Support, Digi Remote Manager, and Limited Lifetime Warranty

PART NUMBERS	ACCESSORIES*
76000926	Antenna - cellular, 3G/4G/LTE
76000954	Antenna base - SMA, 1 m, RG174
76000736	AC power supply - extd temperature, US and EU power cords to 12 VDC - 2.1 mm locking barrel plug
76000966	Mounting bracket - wall mount
76000977	Mounting bracket - DIN rail
76000826	Cable - Ethernet, RJ-45 to RJ-45, 2 m

*Sold separately, unless otherwise noted.

FOR MORE INFORMATION
PLEASE VISIT **DIGI.COM**

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.

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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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