DUAL LTE / DUAL
WI-FI MOBILE
ACCESS ROUTER

Manage this device with
Digi Remote Manager

FIRSTNET
Built with AT&T
READY

DIGI WR54

Rugged and secure cellular router for mission critical industrial and transportation applications, including FirstNet Ready™ models for public safety networks

The versatility and performance of Digi WR54 routers make them ideal for mission critical applications requiring continuous connectivity, field longevity and edge computing. FirstNet Ready™ Digi WR54 provides secure routing and gateway functionality across wired and wireless communication networks. Local private subnets are bridged across public networks to safeguard privacy and integrity.

Digi WR54 is available with dual Wi-Fi radios to segment passenger Wi-Fi from fare collection, data, video and other applications, and offers FirstNet Ready™ models with both single and dual cellular modules. FirstNet® is a public/private partnership managed by the U.S. Dept. of Commerce that develops and operates a nationwide first responder network.
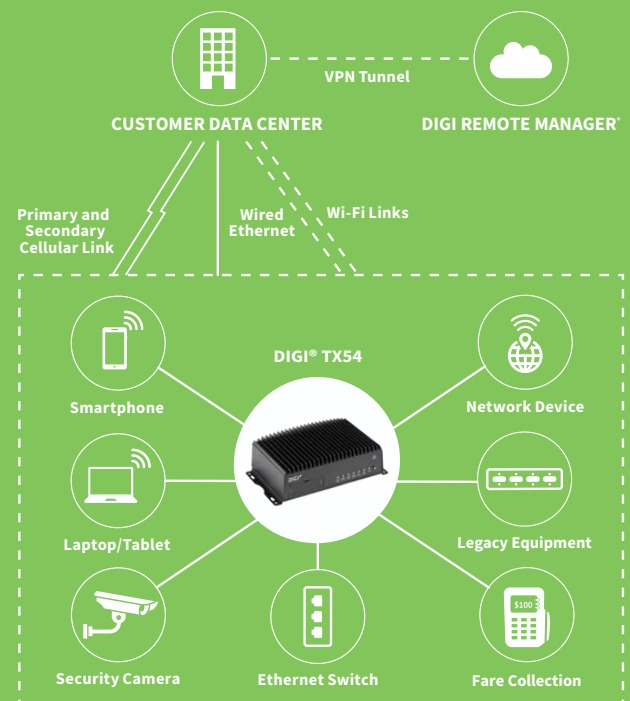
Designed to meet the demands of first responders, Digi WR54 includes concurrent and independent dual cellular interfaces that prioritize critical communications. Industrial-grade design supports the most rugged conditions, including vibration and temperature changes. An embedded Python environment also enables quick adaptation to evolving system requirements.

Four Gigabit Ethernet ports connect other IP-capable systems, each configurable as an isolated secure LAN, or all four can function as a Layer 2 switch. Digi TrustFence®, a suite of hardware and firmware features, ensures the integrity of Digi WR54 security functions. A cryptographic co-processor protects particularly sensitive information.

FEATURES AND BENEFITS

- FirstNet Ready™ models include Digi WR54 A146/A246 with single or dual cellular modules
- Global models Digi WR54 A106/A206 with single or dual cellular radios
- Future-built with dual-core 880 MHz MIPS processor and PCIe 2.0 internal bus
- Segmented private vs. public data communication across dual 600 Mbps Cat 11 cellular modules
- High-speed 867 Mbps 802.11ac Wi-Fi for WAN or LAN service and dual Wi-Fi radios in Digi WR54-A112
- Cryptographic co-processor with secure key generation
- Digi Remote Manager® platform for easy setup, mass configuration and out-of-band management

APPLICATION EXAMPLE

CUSTOMER DATA CENTER

VPN Tunnel

DIGI REMOTE MANAGER®

Primary and Secondary Cellular Link

Wired Ethernet

Wi-Fi Links

DIGI® TX54

Smartphone

Network Device

Laptop/Tablet

Legacy Equipment

Security Camera

Ethernet Switch

Fare Collection

RELATED PRODUCTS

Digi TransPort® WR64

Digi TransPort® WR44 RR

Digi TransPort® WR31

Accessories

Digi Remote Manager®

SPECIFICATIONS	DIGI® WR54
CELLULAR	
LTE – WORLDWIDE	LTE – WORLDWIDE LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B17, B20, B25, B26, B28, B29, B30 (Rx only), B66; LTE TDD: B38, B40, B41 3G HSPA+: B1, B2, B4, B5, B8 Transfer rate (max): 600 Mbps down, 75 Mbps up (Cat 11)
LTE – UNITED STATES / CANADA (FIRSTNET READY™)	LTE FDD : B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B26, B29, B30, B32, B41, B42, B43, B46, B48, B66 3G HSPA: B1, B2, B4, B5, B6, B8, B9, B19 Transfer rate (max): 600 Mbps down, 150 Mbps up (Cat 12)
CONNECTOR	Single cellular models: (2) 50 Ω SMA (center pin: female) Dual cellular models: (4) 50 Ω SMA (center pin: female)
SIM SLOTS	Single cellular models: (2) Mini-SIM (2FF) Dual cellular models: (4) Mini-SIM (2FF)
SIM SECURITY	Screw-down SIM cover
WI-FI	
MODULE	2 x 2 MIMO 2.4/5 GHz 802.11 a/b/g/n/ac, 867 Mbps (max); dual Wi-Fi modules in WR54-A112
HOTSPOT	Captive portal, customizable splash page
AUTHENTICATION	Basic ToS acceptance, enterprise RADIUS
THIRD-PARTY SERVICES	Content filtering, embedded advertising
MODES	Up to 4 access points and 1 client per Wi-Fi module (8+2 total)
SECURITY	None, WPA/WPA2-personal, WPA/WPA2-enterprise
CONNECTORS	2 x 50 Ω RP-SMA (center pin: male)
GPS	
TECHNOLOGY	Multi-constellation: concurrent reception of up to 3 GNSS (GPS, Galileo, GLONASS, BeiDou)
SENSITIVITY	-163 dB
PROTOCOL	Protocol NMEA 0183 V2.3 sentence output
CONNECTOR	1 x 50 Ω SMA (center pin: female); +3.3 VDC active antenna drive
SOFTWARE AND MANAGEMENT	
PROTOCOLS	IPv4/IPv6, DMNR, QoS, NTP, dynamic DNS, syslog
SECURITY	Stateful firewall, VPN (IPsec and OpenVPN), PKI and RADIUS
REMOTE MANAGEMENT	Digi Remote Manager® (cloud based); SNMP v1/v2c/v3
LOCAL MANAGEMENT	Web interface (HTTP/HTTS); CLI (SSH, serial port)
MANAGEMENT/ TROUBLESHOOTING TOOLS	Protocol analyzer with PCAP for Wireshark, event and system logging (with syslog), accessible from Digi Remote Manager, SFTP or SCP
PROGRAMMING TOOLS/ ENVIRONMENTS	Python v3.5
ETHERNET	
PORTS	(4) RJ-45; 10/100/1000 Mbps (auto-sensing)
SERIAL	
PORTS	(1) DB9-M; RS-232 DTE Signal support TXD, RXD, RTS, CTS, DTR, DCD, DSR, RI software (XON/XOFF), hardware supported
USB	
PORTS	(1) USB 3.0 Type A connector
PHYSICAL	
DIMENSIONS (L X W X H)	14.61 cm x 20.95 cm x 6.35 cm (5.75 in x 8.25 in x 2.5 in)
WEIGHT	1.5 kg (3.3 lbs)
STATUS LEDS	Power on, WWAN signal strength, WWAN service
ENCLOSURE	Die-cast aluminium / IP54
POWER REQUIREMENTS	
POWER INPUT	9 - 36 VDC, 30 W minimum power source required
POWER CONSUMPTION	13 W typical (idle); 20 W typical (peak Tx/Rx)

DIGI®

SPECIFICATIONS	DIGI® WR54
ENVIRONMENTAL	
OPERATING TEMPERATURE	-34° C to 74° C (-29° F to 165° F)
RELATIVE HUMIDITY	5% to 95% (non-condensing)
APPROVALS	
CELLULAR	PTCRB, AT&T, Sprint (WR54-A146 and WR54-A246 only), Verizon
SAFETY	EN60950, EN62368
VEHICLE	ISO 7637-2/3, ISO 10605, ISO 16750-2 Pulses 4/5a/5b, SAE J1455, SAE J1113, E-Mark*
ENVIRONMENTAL	MIL-STD-810G
EMISSIONS/IMMUNITY	CE, FCC Part 15 Class B, AS/NZS CISPR 22, EN55024, EN55032
WARRANTY	
PRODUCT WARRANTY	3-year**

*Only on WR54-A106, WR54-A112 and WR54-A206 models.
**Standard 3-year warranty upgradeable to 5 years with purchase of a Digi Remote Manager Premier 5-year subscription applicable to the product purchased only at the time of product purchase and with product registration at that time in Digi Remote Manager.

DIGI REMOTE MANAGER®

Digi Remote Manager is the technology platform that brings networks to the next level, allowing networks — and the people who manage them — to work smarter. With Digi Remote Manager you can transform a multitude of dispersed IoT devices into a dynamic, intelligent network. Now you can easily deploy, monitor and diagnose thousands of mission-critical devices from a single point of command — on your desktop, tablet or phone. All the while, its software-defined security diligently safeguards your entire Digi ecosystem.

Learn more at www.digi.com/digi-remote-manager

CAPABILITIES

– Activate, monitor and diagnose your mission-critical devices from a single point of command and control — on your desktop or mobile app

– Schedule key operations — including firmware updates and file management — on a single device or on a group of devices, keeping your network functionality up-to-date and maintaining compliance standards

– Manage edge devices out-of-band via console terminal access

– Keep tabs on device health and connectvity across device deployments of any size

– Create detailed reports and enable real-time alerts for specified conditions

– Integrate device data through open APIs to gain deeper insights and control with third-party applications

– Report and alert on performance statistics, including connection history, signal quality, latency, data usage and packet loss

INFRASTRUCTURE

– Hosted in a commercial-grade cloud server environment that meets SOC 1®, SOC 2® and SOC 3® standards

– Superior availability, operating to 99.9% or greater

– Open APIs available to support application development

SECURITY

– More than 175 security controls in place to protect your data

– Member of the Center for Internet Security® (CIS®)

– Enables compliance with security frameworks like ISO27002, HIPAA, NIST and more

– Earned Skyhigh's CloudTrust™ Program highest rating of Enterprise-Ready

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DIGI®

PART NUMBERS*	DIGI® WR54
WR54-A106	Digi WR54 single LTE, Wi-Fi, worldwide
WR54-A112	Digi WR54 single LTE, dual Wi-Fi, worldwide
WR54-A206	Digi WR54 dual LTE, Wi-Fi, worldwide
WR54-A146	Digi WR54 FirstNet, single LTE, Wi-Fi, North America
WR54-A246	Digi WR54 FirstNet, dual LTE, Wi-Fi, North America

PART NUMBERS	ACCESSORIES*
76002084	Digi WR54 accessory kit - single cellular
76002085	Digi WR54 accessory kit - dual cellular
76002086	Digi WR54 accessory kit - dual Wi-Fi
76002076	Digi WR54 power supply

*Sold seperately, unless otherwise noted.

PART NUMBERS	DIGI REMOTE MANAGER®
DIGI-RM-STD-1YR	Digi Remote Manager Standard - 1-year subscription
DIGI-RM-PRM-1YR	Digi Remote Manager Premier - 1-year subscription
DIGI-RM-PRM-3YR	Digi Remote Manager Premier - 3-year subscription
DIGI-RM-PRM-5YR	Digi Remote Manager Premier - 5-year subscription

FOR MORE INFORMATION PLEASE VISIT DIGI.COM

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