DIGI TRANSPORT® LR54

High-speed LTE Advanced and Wi-Fi router in a durable hardware package for demanding M2M applications

Digi TransPort LR54 is a high-speed LTE Advanced networking platform designed for retail, commercial and managed networking applications across distributed enterprises. Each device features an LTE Advanced CAT6 modem with speeds up to 300 Mbps and support for global deployments with a single hardware version, as well as a 4-port Gigabit Ethernet switch and serial port for console access. The routers include license-free enterprise software features like VPN, firewall and SNMP.

The two FIPS models make use of an embedded FIPS 140-2 validated cryptographic module for all encryption and authentication functions. The LR54 FIPS model is often used as a VPN gateway to bridge local private subnets through public or untrusted networks, ensuring message privacy and integrity.

The Wi-Fi variant features dual-band, dual-concurrent 5 GHz and 2.4 GHz radios, personal/enterprise security, and multiple SSIDs for maximum range and throughput performance in M2M applications.

Digi TransPort LR54 is ideal for connecting:

- Retail branch sites
- Self-service kiosks
- Remote offices/equipment
- Digital media installations
- Security monitoring equipment
- Guest and employee Wi-Fi users

FEATURES AND BENEFITS

– High-speed LTE Advanced for digital content and business networking applications

– Powerful dual Wi-Fi radios provide 802.11 b/g/n/ac connection to local users and end devices

– Automated fail-over/fail-back between Ethernet, Cellular (dual SIMs), and IPsec tunnels

– Enables compliance with NIST SP 800-171 requirement for FIPS-validated cryptography

– On-board Python environment for custom application programming

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

APPLICATION EXAMPLE

HEADQUARTERS — DIGI REMOTE MANAGER® — CREDIT CARD PROCESSOR

4G LTE A

DIGI TRANSPORT® LR54

Primary Router — Ethernet — Ethernet — POS Terminal

Laptop — Wi-Fi — Wi-Fi — Digital Media

Kiosk

RELATED PRODUCTS

Digi TransPort®
WR11 XT

Digi TransPort®
WR21

Digi TransPort®
WR44 R

Accessories

Digi Remote
Manager®

SPECIFICATIONS	Digi TransPort® LR54
WIRELESS INTERFACES	
CELLULAR*	
LTE/HSPA+	Coverage: North America/EMEA 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, 150 Mbps up Approvals: PTCRB, AT&T, Verizon
CONNECTOR	(2) 50 Ω SMA (Center pin: female)
SIM SLOTS	(2) Mini-SIM (2FF)
SIM SECURITY	SIM slot cover plate
WI-FI	
802.11	Wi-Fi maximum data rates: 54 Mbps (802.11a); 11 Mbps (802.11b); 54 Mbps (802.11g); 300 Mbps (802.11n); 866 Mbps (802.11ac)
TX POWER	2.4 GHz 19 dBm (802.11g/n), 19 dBm (802.11b) 5 GHz 22.9 dBm for all modes
RX SENSITIVITY	-87 dBm / 11 Mbps (802.11b) -71 dBm / 54 Mbps and -90 dBm / 6 Mbps (802.11a) -74 dBm / 54 Mbps and -92 dBm / 6 Mbps (802.11g) -66 dBm / 300 Mbps and -92 dBm / 6 Mbps (802.11n 2.4 GHz) -67 dBm / 300 Mbps and -89 dBm / 6 Mbps (802.11n 5 GHz) -57 dBm / 866 Mbps and -83 dBm / 29 Mbps (802.11ac)
MODES	Access point, support for multiple SSID
SECURITY	Mixed WPA/WPA2 Personal; WPA2 Personal; Mixed WPA/WPA2 Enterprise; WPA2 Enterprise
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; 10/100/1000 Mbit/s (auto-sensing)
MANAGEMENT	
REMOTE MANAGEMENT	Digi Remote Manager® (cloud based); SNMP v1/v2c/v3 (user installed/managed)
LOCAL MANAGEMENT	Web interface (HTTPS); CLI (SSH, Serial port)
MEMORY	256 MB of Flash; 100 MB user available memory
POWER	
INPUT	12 VDC
CONNECTOR	4-pin terminal block; Power supply comes with US plug (IEC Type A) and an EU plug (IEC Type C)
CONSUMPTION	13.68W max, 11.4W average
DC POWER SUPPLY	100-240 VAC 50/60 Hz
PHYSICAL	
DIMENSIONS (L X W X H)	8.15 in x 5.5 in x 1.5 in (207 mm x 140 mm x 38 mm)
WEIGHT	2.90 lb (1.32 kg)
STATUS LEDS	Power, WWAN signal, WWAN service, SIM 1, SIM 2, 2.4 GHz and 5 GHz LEDs on Wi-Fi version
MATERIAL/RATING**	Industrial (Metal) / IP30
MOUNTING	Wall mount bracket sold separately

* Transfer rates are network operator dependent

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

DIGI

ENVIRONMENTAL	
OPERATING TEMPERATURE **	-20° C to +70° C
STORAGE TEMPERATURE	-40° C to +85° C
RELATIVE HUMIDITY	0% to 95% (non-condensing) @ 25° C
APPROVALS	
CELLULAR	PTCRB
WI-FI	Wi-Fi Alliance® Wi-Fi CERTIFIED™
MATERIALS	RoHS
SAFETY	CB Scheme, IEC 60950-1
EMISSIONS/IMMUNITY	CE, FCC Part 15 Class B
WARRANTY	
PRODUCT WARRANTY	3 years

| ENTERPRISE SOFTWARE	DESCRIPTION
MANAGEMENT PROTOCOLS	HTTPS, TLS1.0/1.1/1.2, SFTP, SCP,SNMP (v1/v2c/v3), SSHv2,CLI for web management; remote management via Digi Remote Manager; protocol analyzer, ability to capture PCAP for use with Wireshark, Syslog support for streaming event and system logs
SECURITY/VPN	Stateful inspection firewall with scripting; VPN: IPSec with IKEv1; OpenVPN (32) VPN Tunnels; Cryptology: SHA-1/SHA256, RSA, DH Groups 5,14,15,16,17,18 ; Encryption: AES up to 256-bit; Ethernet Port Isolation; RADIUS
ROUTING/FAILOVER	NAT, NAPT with IP Port Forwarding; IP Failover: Automatic failover/failback to second GSM network/Standby APN, IP Port forwarding
OTHER PROTOCOLS	IPv4, IPv6, DHCP, GRE, DMNR, DSCP (QoS)

PRODUCT IMAGES

DIGI TRANSPORT LR54

FRONT

BACK

DIGI TRANSPORT LR54 (WITH WI-FI)

FRONT

BACK

Wi Fi CERTIFIED

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DIGI REMOTE MANAGER®
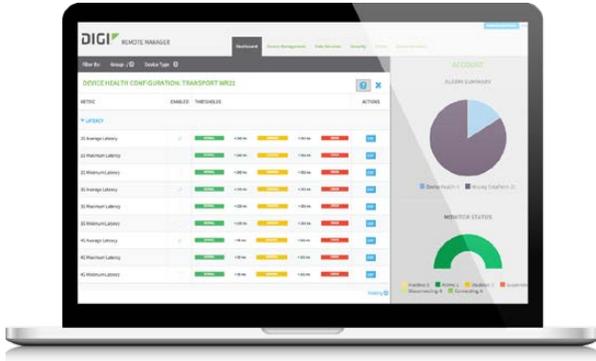
CAPABILITIES

– 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

PART NUMBERS	DIGI TRANSPORT WR31
LR54-AA401	4G LTE North America/EMEA, No Wi-Fi
LR54-AW401	4G LTE North America/EMEA, Wi-Fi
LR54-AA403	4G LTE North America/EMEA, No Wi-Fi, FIPS 140-2
LR54-AW403	4G LTE North America/EMEA, Wi-Fi, FIPS 140-2

PART NUMBERS	ACCESSORIES
78000001	Wall Bracket

FOR MORE INFORMATION PLEASE VISIT WWW.DIGI.COM

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