

TR-1904-LTE Router



Multi Service Router

Product Overview

Techroutes TR-1904-LTE router designed for establish a cellular broad band Internet connection in inside/outside. The CPE enables users to quickly create a secure wireless network and provide access to the Internet using a cellular network. By connect to cellular network; an Internet connection can be accessed and shared virtually anywhere within a wireless broadband network. Moreover the CPE can support IPv6.

TR-1904-LTE router provides a cost-effective broadband Machine-to-Machine (M2M) solution and supports the following radio access technologies: 4G LTE, 3G HSDPA, HSUPA HSPA+ UMTS, EDGE, GPRS GSM. The compact and rugged structure makes it a suitable product for deployments in M2M applications.

TR-1904-LTE router is easy to install and enables direct access to your remote LAN devices for control and monitoring purposes. It enables companies to remotely access equipment at mobile, remote networks and isolated sites.

TR-1904-LTE router offers wireless network routing optimised for machines, small networks and specialised Fixed IP services now available from wireless operators. It offers low cost router operation through Dial-out, Dial-in and always connected modes of operation.

TR-1904-LTE router offers SNMP and SMS based control allow easy management of huge number of units in your network centrally by TR Net view.

TR-1904-LTE router provides end to end data security from VPN such as IPSec, GRE, PPTP, L2TP, and Open VPN. Firewall security feature for protecting the network data as well as secure access of hardware.

TR-1904-LTE router supports Static route Dynamic (OSPF/BGP/RIP) routing Virtual Server/Port Forwarding IPv6 VRRP.

TR-1904-LTE router use in various applications Remote Data Monitor and Control, CCTV, security surveillance Water, gas and oil flow metering and schedule, AMR (automatic meter reading), Power station monitoring and control, Remote POS (point of sale) terminals, ATM, Traffic signals monitor and control, Traffic info guidance; Oil field, weather forecast, environmental protection. Telemetry, SCADA; Vehicle logistics and diagnostics controlling.



Technical Specification

Model	TR-1904-LTE
Hardware	CPU: 580Mhz
	RAM: 512M Flash: 128M
WAN	1x10/100Mbps Etheret Port
LAN	4x10/100Mbps Etheret Port
Cellular Interface	1x4G/3G/2G (Two SIM Slot with Active/Passive Mode)
Wi-Fi	802.11a/b/g/n
	Frequency Range:2.412 ~ 2.472Ghz
	Speed:802.11n in 300Mbps;
	Power (DC Jack, 2 Pin Terminal Block for wire connection)
	2-4 cellular antenna connectors (SMA)
Ports/Connectors	1 GPS antenna connector (SMA) 2 Wi-Fi antenna connectors (SMA)
	Serial RS232 / RS485 & 4 Digital I/O ports Terminal Socket (Optional)
	Reset button
	DC input steady state voltage range: 5-40 VDC
	Reverse polarity and transient voltage protection per ISO 7637-2 Ignition sensing
	(automatic ON and time-delay OFF)
Power	Power consumption:
	Idle: typical=100mA@12VDC; Maximum=500mA@12VDC
	Tx/Rx: typical=300mA@12VDC; Maximum=800mA@12VDC 12VDC 2A adapter recommended
	SYS, VPN, WiFi, Cell1, Cell2, Cell Signal1, Cell Signal2 LAN (10/100M) 1, 2, 3, 4, WAN,
LED	GPS
SIM	Support 1.8V/3V UIM/SIM cards, two SIM card slots
Size	PCB: 168mm x 111mm x 16mm
Size	Case: 180mm x 114mm x 32mm
Weight	750g without accessories
	850g with accessories
Temprature	-10°C~60°C operating -30°C~75°C storage
Llumidity	,
Humidity (non-condensing)	10%~90% operating 5%~95% storage
Case/Shell	Alloy-metal
Cuse/ Silen	4G LTE (FDD/TDD)
Compatible	UMTS WCDMA (HSUPA/HSDPA/HSPA/HSPA+/DC-HSPA+) GSM EDGE/GPRS
Mobile Networks	CDMA1x
	CDMA2000 EVDO Rev 0, Rev A, Rev B TD-SCDMA/TD-LTE



	4G FDD LTE:
Cellular Frequency	Band 1 – 2100Mhz
	Band 3 – 1800Mhz
	Band 5 – 850Mhz
	Band 8 – 900Mhz
	4G TDD LTE:
	Band 38 – 2600Mhz
	Band 39 – 1900Mhz
	Band 40 – 2300Mhz
	Band 41 – 2500/2600Mhz
	3G:
	UMTS/HSPA/HSUPA/HSPA/HSPA+/DC-HSPA+ (WCDMA/FDD): 2100MHz(B1)/1900MHz (B2)/1800MHz (B3) /1700MHz /AWS(B4)/850MHz (B5)/900MHz (B8)/800MHz (B6)/1800MHz (B9)/850MHz (B19)
	2G:
	Quad-band EGSM 850/900/1800/1900Mhz;
	downlink 100Mbps / 150Mbps / 300Mbps / 600Mbps / 1200Mbps; uplink 50Mbps / 150Mbps / 300Mbps / 600Mbps; TDD LTE: 150Mbps downlink, 50Mbps uplink;
Bandwidth	3G: DC-HSPA+: Downlink 42Mbps, Uplink 5.76Mbps; HSPA+(H): Downlink 21Mbps, Uplink 5.76Mbps; HSPA+(L): Downlink 14.4Mbps, Uplink 5.76Mbps; HSUPA: Downlink 7.2Mbps, Uplink 5.76Mbps; HSDPA: Downlink 7.2 Mbps, Uplink 384k bps; WCDMA/UMTS: Downlink/Uplink 384 kbps; 2G: EDGE: Downlink 384 kbps, Uplink 118 kbps; GPRS: Downlink 108 kbps, Uplink 42.8 kbps
Redundancy and Load Balancing	Automated WAN Failover/Failback support Failover/failback with 4G/3G/2G Dual SIM (Active/Passive) WAN failure detection, Auto-dial feature, keep alive link LCP, ICMP check; Built-in watch dog Cellular (2G/3G/4G) & RJ45 WAN (xDSL, DHCP, Fixed IP) redundancy Option Feature: Ethernet with rule selection, advanced load balancing options (round robin, spillover, data usage, rate)
Features	DHCP Server, Client, Relay DNS and DNS Proxy DDNS UPnP DMZ Multicast/Multicast Proxy



	QoS (DSCP and Priority Queuing)
	Virtual Server
	MAC Address Filtering
	VLAN 802.1Q
	Cellular and Wi-Fi MIMO supported
	Syslog (local and remote)
	Optimized EMC design
	Real-time clock (NTP, support update with defined hours); WAN/LAN/Memory statistics
	Local/remote profiles backup and retrieve
Routing	Static route, default route,RIP,OSPF,BGP,VRRP
IPv6	support
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	IPSec Tunnel, NAT-T, and transport modes; IKEv1 & IKEv2 Hash (MD5, SHA128, SHA256,
	SHA384, SHA512), Cipher (AES, 3DES, DES)
	GRE tunneling
	PPTP support
	L2TP, L2TP over IPSec support
VPN	VPN pass-through
	Open VPN support (option)
	DMVPN (option); Certificate support
	Multiple networks supported in a single tunnel
	Site-to-site dynamic VPN with NHRP
	VTI Tunnel support
	RADIUS and TACACS+ support (Optional)
	802.1x authentication for Ethernet
	Certificate support ALGs
	MAC Address Filtering
	Advanced Security Mode (local user management only)
	Per-Client Web Filtering
Security	IP Filtering
	Content Filtering (basic)
	Website Filtering Zone-Based Object Firewall with host address (IP or FQDN), port, and
	mac address
	NAT, PAT, SPI, port blocking, service filtering (FTP, SMTP, HTTP, RPL, SNMP, DNS, ICMP,
	NNTP, POP3, SSH), protocol filtering,
	WAN ping (allow/ignore)
	support firmware update locally, remotely (LAN, WiFi and OTA WAN) and RMS (Remote
Firmware update	Management System) option;
	GUI
	Telnet
	SSH
Management	SNMP V1/V2/V3
Management	SMS control
	TR-069 option
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	Techroutes Net view NMS



Order Information

Product	Description	
TR-1904-LTE	Techroutes Outdoor LTE Router (1xCell Interface (4G/3G/2G) Dual SIM, 1x Fast Ethernet (10/100M) WAN Interface , 4x Fast Ethernet (10/100M) LAN Interface, Adapter Power Supply)	
TR-MA-1M	5dB Magnetic Antenna with 1 Meter cable	
TR-PP-12M	12dB Patch Panel Antenna with 10 Meter Cable	
Cellular Antenna & Wi-Fi Antenna order separately		

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