

TR-1902-LTE

Outdoor Industrial Grade LTE Router



Product Overview

Techroutes TR-1902-LTE outdoor router designed for establish a cellular broad band Internet connection in 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.

Techroutes TR-1902-LTE outdoor routers are widely used in more regions, and more than ten industrial fields, such as power control, water schedule, traffic, oil field, weather forecast, environmental protection, street lamp control, post, bank and many other areas.

Broadband M2M Communication

The product line 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 such as CCTV, ATM, telemetry, SCADA, retail (POS), digital signage, and intelligent traffic systems.

Technical Specification

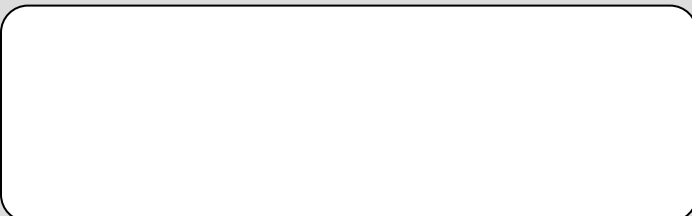
TR-1902-LTE	
Compatible Mobile Networks	TDD-LTE & FDD-LTE
	UMTS WCDMA (HSUPA/HSDPA/HSPA/HSPA+)
	GSM EDGE/GPRS
Cellular Frequency	TDD LTE:B38/39/40/41
	FDD LTE:B1/B3/B5/B8
	UMTS/HSPA/HSUPA/HSPA/HSPA+: B1/B5/B8
	Quad-band EGSM: B3/B8 900/1800
Hardware	CPU: Qualcomm Chipset, 650Mhz;
	Flash: 16M up to 128M
	RAM: 128M up to 1G
WAN	1x Cell Interface (4G/3G/2G) SIM Card Slot
	Support 1.8V/3V UIM/SIM cards
	Integrated Category 6/4/3 LTE Advanced LTE modem (with 3G and 2G failover);
	1x 10/100M WAN Port RJ45 Interface (Optional)
LAN	1x 10/100M LAN port (RJ45 interface) POE (IEEE802.3af) support
Wi-Fi	2.4Ghz 802.11a/b/g/n (Optional)
	WPA2 Enterprise (Wi-Fi),Hotspot/Captive Portal, SSID-based Priority (Optional)
SMS,SMS Control and Alarm	SMS/Voice Control and Alarm. SMS or Call to control router to be online, offline, reboot, signal and status monitor; SMS is default feature, Voice is option, SMS text sending and receiving (Optional)
Features	DHCP Server, Client, Relay
	DNS and DNS Proxy
	DynDNS
	UPnP
	DMZ
	Multicast/Multicast Proxy
	QoS (DSCP and Priority Queuing)
	MAC Address Filtering
	VLAN 802.1Q
	Cellular and WiFi MIMO supported;
	Syslog (local and remote);
	DDNS;
	DNS proxy;
	Optimized EMC design;
	Real-time clock (NTP, support update with defined hours);
	WAN/LAN/Memory statistics;
	Local/remote profiles backup and retrieve;

Dual APN	Support
Routing	Static
	Dynamic (OSPF/BGP/RIP)
	Virtual Server/Port Forwarding
	IPv6
	VRRP
VPN	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 pass-through;
	Open VPN support (option);
	DMVPN (option);
	Certificate support (option);
	multiple networks supported in a single tunnel, site-to-site dynamic VPN with NHRP; VTI Tunnel support;
Optimized IP Communication	WAN Affinity and QoS allow prioritization of VoIP services
	Advanced VPN connectivity options to HQ
	SIP ALG and NAT to allow VoIP and UC communications to traverse firewall
	MAC Address Filtering
	802.1p/q for LAN QoS segmentation and treatment of VoIP on LAN
	Private Network support (4G WAN)
Security	RADIUS and TACACS+ support
	802.1x authentication for Ethernet
	Certificate support
	ALGs
	MAC Address Filtering
	Advanced Security Mode (local user management only)
	Per-Client Web Filtering
	IP Filtering
	Content Filtering (basic)
	Website Filtering
	Zone-Based Object Firewall with host address (IP or FQDN), port, and mac address
	Other Details: NAT, SPI, port blocking, service filtering (FTP, SMTP, HTTP, RPL, SNMP, DNS, ICMP, NNTP, POP3, SSH), protocol filtering, WAN ping (allow/ignore)
Management	GUI
	Telnet
	SSH
	SNMP V1/V2/V3

	SMS control
	TR-069 option
	Techroutes Enterprise Cloud Remote Management System (RMS)
Firmware upgrade	support firmware update locally, remotely and RMS (Remote Management System) option;
Antenna	Built-in Internal 14dBi (4G/3G/2G) Antenna and Wi-Fi Antenna (Optional)
	External High Gain Antenna N-Type (Optional)
Led	SYS,LTE,ETH,RUN,SIM and RF
Power supply	POE power to CPE (IEEE 802.3af) PD
	Built-in transient and reverse polarity voltage protection
Operating Temperature	Storage: (-40°C to 75°C)
	Working: (-10°C to 65°C)
Humidity	5% to 95% operating
	5% to 95% storage
Dimensions	(L x W x H): 220mm x 220mm x 90mm
Weight	About 560g (Without accessories)
	About 750g (With accessories)
Case	IP67 grade anti-dust and anti-water enclosure for outdoor installation;
	PC+Anti-UV+ Ant oxidation OSP
	Wall-mount, Pole Mount;

Order Information :

Product	Description
TR-1902-LTE	Techroutes Outdoor LTE Router (1xCell Interface (4G/3G/2G), 1xFast Ethernet (10/100M) LAN POE Interface, built-in Antenna, External POE Injector Power Supply)



For More details:

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