

## TR-1900

### Outdoor Industrial Grade Router



#### Product Overview

Techroutes TR-1900 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-1900 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.

#### Broad band M2M Communication

The product line provides a cost-effective broad band Machine-to-Machine (M2M) solution and supports the following radio access technologies:4G,3GHSDPA,HSUPAHSPA+UMTS,EDGE,GPRSGSM.Thecompact 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-1900	
<b>Compatible Mobile Networks</b>	TDD-LTE&FDD-LTE
	UMTSWCDMA(HSUPA/HSDPA/HSPA/HSPA+)
	GSM EDGE/GPRS
<b>Cellular Frequency</b>	TDDLTE:B38/39/40/41
	FDDLTE:B1/B3/B5/B8
	UMTS/HSPA/HSUPA/HSPA/HSPA+:B1/B5/B8
	Quad-bandEGSM:B3/B8900/1800
<b>Hardware</b>	CPU:QualcommChipset,650Mhz;
	Flash:16Mupto128M
	RAM:128Mupto1G
<b>WAN</b>	1xCellInterface(4G/3G/2G)SIM Card Slot
	Support1.8V/3VUIM/SIM cards
	IntegratedCategory6/4/3LTEAdvancedLTEmodem(with3Gand2G failover);
	1x10/100MWANPortRJ45Interface(Optional)
<b>LAN</b>	1x10/100MLANport(RJ45interface)POE(IEEE802.3af)support
<b>Wi-Fi</b>	2.4Ghz802.11a/b/g/n(Optional)
	WPA2Enterprise(Wi-Fi),Hotspot/Captive Portal,SSID-based Priority (Optional)
<b>SMS,SMS Control and Alarm</b>	SMS/Voice Control and Alarm. SMS or Call to control router to be online, offline,reboot,signalandstatusmonitor;SMSisdefaultfeature,Voiceis option, SMS text sending and receiving(Optional)
<b>Features</b>	DHCP Server, Client, Relay
	DNS and DNS Proxy
	Dyn DNS
	UPnP
	DMZ
	Multicast/Multicast Proxy
	QoS (DSCP and Priority Queuing)
	MAC Address Filtering
	VLAN802.1Q
	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;	

<b>Dual APN</b>	Support
<b>Routing</b>	Static
	Dynamic(OSPF/BGP/RIP)
	Virtual Server/Port Forwarding
	IPv6
	VRRP
<b>VPN</b>	IPSec-Tunnel, NAT-T,and transport modes; IKEv1&IKEv2
	Hash(MD5,SHA128,SHA256,SHA384,SHA512),Cipher(AES,3DES,DES);
	GRE tunneling;
	PPTP support;
	L2TP,L2TPoverIPSec 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;	
<b>Optimized IP Communication</b>	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(4GWAN)
<b>Security</b>	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
OtherDetails:NAT,SPI,portblocking,servicefiltering(FTP,SMTP,HTTP,RPL,SNMP,DNS,ICMP,NNTP,POP3,SSH),protocol filtering,WAN ping (allow/ignore)	
<b>Management</b>	GUI
	Telnet
	SSH
	SNMPV1/V2/V3

	SMS control
	TR-069option
	Techroutes Enterprise Cloud Remote Management System(RMS)
<b>Firmware upgrade</b>	Support firmware update locally, remotely and RMS(Remote Management System) option;
<b>Antenna</b>	Built-in Internal 14 dBi (4G/3G/2G)Antenna and Wi-Fi Antenna(Optional)
	External High Gain Antenna N-Type( Optional)
<b>Led</b>	SYS,LTE, ETH, RUN,SIM and RF
<b>Power supply</b>	POE power to CPE (IEEE802.3af)PD
	Built-intransient and reverse polarity voltage protection
<b>Operating Temperature</b>	Storage:(-40°C to 75°C)
	Working:(-10°C to 65°C)
<b>Humidity</b>	5% to 95% operating
	5% to 95% storage
<b>Dimensions</b>	(Lx W x H):220mmx220mmx90mm
<b>Weight</b>	About560g(Without accessories)
	About750g(With accessories)
<b>Case</b>	IP 67gradeanti-dustand anti-water enclosure for outdoor installation;
	PC+ Anti-UV +Ant oxidation OSP
	Wall-mount, Pole Mount;

**Order Information:**

Product	Description
TR-1900	Techroutes Outdoor LTE Router(1xCell Interface(4G/3G/2G),1xFastEthernet (10/100M) LAN POE Interface, built-in Antenna, External POE Injector Power Supply)



**For More details:**

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