Techroutes
N E T W O R K

TR-1905-LTE Router

Multi Service Router

Product Overview:

The TR-1905-LTE series Cellular Router is designed for establish a 2G/3G/4G cellular wireless network and share a cellular broadband internet connection. The TR-1905-LTE series Cellular Router enables users to quickly create a secure Wi-Fi (802.11 b/g/n) network and provide access to the internet using a cellular network. By connect to cellular broadband network; an internet connection can be accessed and shared virtually anywhere within a wireless broadband network.

Hot Spot for Dual SIM

TR-1905-LTE series is with two module two sim cards (two sim working online): two sim work together to backup (hot standby for failure backup, switch to backup line immediately if main line is failed);

Two standard SIM slot can be any type from 2G/3G/4G
Main

Built-in two 2G/3G/4G industrial cellular modules (two modules to get different network supported), insert SIM/UIM card to work directly;
Built-in two sim card slot;
RJ45 LAN *4; RJ45 WAN *1;

Your Route to The Destination

Option Feature:

Wi-Fi

GPS

Serial to cellular gateway (RS232 or RS485 port)

Redundancy backup: cellular1+ cellular 2+ WAN RJ45

Industrial Application:

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, street lamp monitoring and control Early Warning of Mountain Torrent

Fleet management

Power distribution network supervision

Central heating system supervision

Weather station data transmission

Hydrologic data acquisition

Vending Machine

Telemetry, SCADA

Vehicle logistics and diagnostics controlling

Parking meter and Taxi Monitor

Telecom equipment supervision (Mobile base station, microwave or optical relay station)

Specification:

Wireless

Capable Mobile Network	LTE: FDD/TDD
	UMTS WCDMA (HSUPA/HSDPA/HSPA/HSPA+)
	GSM /GPRS/EDGE
Cellular Frequency	TDD: Band 38/39/40/41 FDD: Band 1/3/5/8
	UMTS/HSPA/HSUPA/HSPA/HSPA+ 850/900/2100 MHz
	Quad-band GSM/GPRS/EDGE 900/1800;
	Note: listed. Please confirm the detailed band and frequency with your carriers before order.
Bandwidth	CAT 4 : Downlink 150Mbps,Uplink 50Mbps;
	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;
	EDGE: Downlink 384 kbps, Uplink 118 kbps;
	GPRS: Downlink 108 kbps, Uplink 42.8 kbps;
	Rev O: 2.4Mbps downlink, 153.6kbps uplink
	Notes: the bandwidth is peak value. Real value depends on carrier network support
Bandwidth (bandwidth binding mode)	Twice bandwidth (depends on network quality)
Main Features and Performance	
GPS (Option)	GPS feature
DTU (Option)	With DTU feature (Serial to Cellular Gateway feature, RS232 or RS485 port option).
	Details: Serial Baud rate: 300bps, 600bps, 1200bps, 2400bps, 4800bps, 9600bps,
	19200bps, 38400bps, 57600bps, 115200bps;
	Serial Parity: none, even, odd;
	Serial Data bits: 7, 8;
	Serial stop bits: 1, 2;
	Serial flow control: none, hardware, software;
	Mode: Server (up to 4 server centre, can OEM to be more), Client;
	Protocol: TCP, UDP ;
	Heart Beat : Yes;

VPN	PPTP, L2TP, IPSec, GRE, Tunnel (PPTP server, PPTP client, L2TP client, IPSec client, IPsec server)
VRRP (Option)	Optional
Route	Static Route
SNMP	Support V1, V2. V3
LAN IP	Support multi-LAN IP address, support two IP address
Wi-Fi	Optional, 802.11b/g/n; 300Mbps.
	Can be used as AP and client;
	Frequency from 2.4GHz to 2.483GHz,Access Points, Routers and Gateway
	Server Applications, wireless up to 254 PC users
Fail Over Redundancy (network Backup feature)	Auto-dial feature, keep alive link;
	LCP, ICMP check;
	Built-in watch dog;
	Dual cellular (2G/3G/4G), RJ45 WAN (xDSL, DHCP, Fixed IP), WiFi client four line redundancy;
	Cold Backup (WAN RJ45, Dual WAN Cellular, WiFi Client) is default, Hot Backup (Two Cellular)is default, Hot Backup(WAN RJ45 and WAN Cellular) is option;
	Cold Backup=Two lines not online at the same time. One line online and the other line standby, switch freely with triggers;
	Hot Backup=Two lines are online at the same time. Data goes the main line,and switch to the other line. Hot Backup switch time is shorter than Cold Backup.
Firmware update	support firmware update locally or remotely
Syslog	local and remote
DDNS	Yes
DHCP Server	Yes
Other	DNS proxy;
	Optimized EMC design;
	Real-time clock (NTP, support update with defined hours);
	WAN/LAN/Memory statistics;
	Local/remote profiles backup and retrieve;
Protocol	
Protocol Support	TCP, UDP, SMTP, POP, ICMP, FTP, PPP, PPPoE, DHCP, DDNS, DNS, WPS, DMZ,NAT, xDSL, NTP, QoS, etc.
Security	
Firewall	support 64/128 bits WEP, 802.1x, WPA, and WPA2
	support WDS
	support WPA1/2 – PSK
	support WPA1/2 – 802.1x
	support EAP – TLS, TTLS, LEAP, PEAP
	TKIP, AES encryption

	support access with user name & password.
	support access control base WAN/LAN interface
	support access control base source IP address
	defense DOS attack, support SYN flooding, IP surfing, ping of Death, fragile,
	teardrop, land etc.
	support PAP & CHAP
	support IP filtering
	support content filtering , support NAT/NAPT/Port forwarding/DMZ
Advanced Firewall Features	State ful Packet Inspection (SPI) VPN Pass-through
Media Access Control	CSMA/CD with ACK
Certifications	REDIUS Client
Interface	
LAN/WAN	4X 10/100M LAN port (RJ45 interface)
	1X 10/100M WAN port (RJ45 interface)
	WAN ports support Cell/Static IP/DHCP/PPPoE (on demand, keep alive,schedule, manual)
Antenna Port	50Ω SMA female interface, detachable
	Wi-Fi*2
	Cellular*2
LED	SYS
	VPN
	WiFi
	Cell1
	Cell2
	Cell Signal1
	Cell Signal2
	LAN (10/100M) 1, 2, 3, 4
	WAN
Button	Reset
Serial Port	RS232 or RS485 with DB9 and Terminal Block interface
Management	Easy to use and management;Web/Telnet/SSH/CLI, support remote management
UIM/SIM Card Slot	Support 1.8V/3V UIM/SIM cards, two sim card slot
DC Jack	Two types of input jack for DC
	2.5mm DC jack * 1
	Terminal Block * 1
Power	
Power supply	DC5V-50V , typical DC 12V1A-2A, 12v CAR USE;
	DC5V~40V is the default, DC5V~50V is the option
Current	Idle: 30mA@12VDC
	Max: 420mA@12VDC

	Average:220mA@12VDC
Software	
Device Management	WEB interface (Internet Explorer v6 or Later; Mozilla Firefox v1.5 or Later, or other Java-enabled Browsers,Chome,Opera,Sarafi)
Operating Temperature	Storage Temperature: -40 ~ 85°C Working Temperature: -30 ~ 75°C
Humidity	95% Maximum (Non-condensing)
Dimension	PCBA: 168mm x 111mm x 16mm With case: 180mm x 114mm x 32mm
Weight	705~725g (not including the antenna)

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