TSR-MIG2000 Series

Multi-Service Router

Product Overview

TSR-MIG2000 Series is a Techroutes–developed multi-service converged gateway oriented for various ICT scenarios such as enterprises, parks, hotels, campuses, hospitals, and commercial chains.

TSR-MIG2000 Series adopts a brand-new fifth-generation TRROS operating system and is built with an ARM-based multi-core high-performance embedded platform, which can provide users with practical NAT shared Internet, multi-line routing strategies, flexible QoS flow control, VPN interconnection, and wireless AC management. Therefore, TSR-MIG2000 Series is the ideal choice for various enterprise users.

Product Characteristics

Powerful Performance

TSR-MIG2000 Series is built with an ARM-based high-performance embedded processor, providing maximum 10G high-speed throughput. The whole device has ultra-high processing performance and forwarding efficiency, so that can carry a large amount of data traffic or concurrent access.

Excellent Energy-saving Characteristics

TSR-MIG2000 Series adopts energy-saving chip with low power consumption. Compared with the other mainstream devices in the industry, power consumption of the TSR-MIG2000 Series is reduced by 15% to 20%, which saves the total cost of ownership (TCO) and accords with the low-carbon idea.

Comprehensive Routing Protocols

TSR-MIG2000 Series supports multiple deployment modes such as routing, gateway and transparent bridge.

TSR-MIG2000 Series supports static routing, dynamic routing (including RIP, OSPF, BGP) and policy-based routing (PBR). Its comprehensive routing protocols make it can be perfectly compatible with the devices of mainstream manufacturers in the industry.

TSR-MIG2000 Series supports multi-service integration such as routing and switching integration, wired and wireless integration, authentication and marketing integration, to meet the needs of various complex network constructions and effectively reduces overall costs.

Rich Network Security Features

TSR-MIG2000 Series supports flexible ACL firewall filtration and NAT technology to protect the user network against potential threats from external networks.

TSR-MIG2000 Series supports not only multiple VPN technologies such as IPSec, SSL, L2TP/PPTP, GRE, but also nested deployment, to provide cost-effective solutions for remote branches and branch backhaul applications. At the same time, multiple VPN technologies also greatly enhance the data security.

The built-in logic encryption module of TSR-MIG2000 Series effectively improves the VPN processing capacity. While ensuring data security, it also greatly reduces the CPU resource occupation.

Thoughtful Cloud Management and Maintenance

TSR-MIG2000 Series supports management through COP with cloud registration access and remote management. Users can not only remotely view the network status and device running states, but also perform daily operation and maintenance and handle common problems through the PC web or mobile client, which significantly eliminates failure recovery time and travel costs and greatly improves production efficiency as a whole.

TSR-MIG2000 Series is equipped with color LCD screen through which users can check the operation status without relying on other management devices and terminals, which greatly simplifies the process of inspection and troubleshooting.

Technical Specification:

Product model	TSR-MIG2000-08LTE	TSR-MIG2000-20C	TSR-MIG2000-20	TSR-MIG2000-40
Management port	1 Console	1 Console	1 Console	1 Console
Ethernet port	1 GE-Combo 8 GE-LAN 1 4G LTE (dual-SIM single-standby)	1 GE-Combo 8 GE-LAN	1 GE-Combo 8 GE-LAN	1 10GE SFP+ 2 GE SFP +2 GE TX 8 GE LAN
Other characteristics	1 USB 1 Reset	1 USB 1 Reset	1 USB 1 LCD 1 MODE	1 USB 1 LCD 1 MODE
Recommended bandwidth	1Mpps	1Mpps	1Mpps	5Mpps
Power supply	220VAC	220VAC	220VAC	220VAC

Your Route to The Destination

| Dimensions (WxDxH)	280x180x44mm	280x180x44mm	443x200x44mm	443x200x44mm
Operating temperature	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C
Operating humidity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)

Software Specification

ARP	ARP dynamic learning, ARP static binding, free ARP anti-spoofing
Ethernet protocol	802.3 protocol family, 802.1Q VLAN, Rate-limit, broadcast storm suppression
Link layer protocol	Point to Point Protocol (PPP)
LTE wireless	TDD and FDD-LTE full Netcom modules, backward compatible APN dial-up dual-SIM single-standby
WAN access	Static IP address, DHCP dynamic IP and PPPoE dial-up access Multi-line networking Load balancing of multiple policies (equivalent, weighted)
Routing protocol	Static routing, policy routing based on IP 5-tuple RIP V1/V2, OSPF V2, BGP dynamic routing protocols Floating routing and routing automatic backup Keepalive, BFD remote link detection
NAT	NAT based on IP, port and address pool SNAT, DNAT NAT port mapping NAT concurrent connection limit NAT Application Layer Gateway (ALG)
DHCP	DHCP server, DHCP Relay

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	DHCP Option43, 60, 82
IP-based service	IP, ICMP, TCP, UDP DNS and DDNS SNTP FTP and TFTP PPPoE server
QoS	Traffic classification based on IP 5-tuple Committed Access Rate (CAR) and Generic Traffic Shaping (GTS) PQ, CQ, CBWFQ
Multicast protocol	IGMP, PIM-SM, PIM-DM
Network security	AAA, PPP, CHAP and MS-CHAP authentication IP and MAC-based ACL firewall policy Rich VPN protocols such as IKE, IPSEC, L2TP/PPTP, GRE Nested deployment of multiple VPN protocols Anti-Flood capability for ARP, IP, ICMP, TCP Attack protection such as Ping of Death, Tear-drop, WinNuke, Smurf, etc.
IPv6 protocol	IP v4/v6 dual stack IPv6 static routing IPv6 Dynamic routing such as RIPng, OSPFv3, BGP4+ IPSEC v6
Management and maintenance	Console, Telnet, SSH, SNMP ping, traceroute Syslog LCD color screen to provide real-time operation, fault diagnosis and online help Cloud management through COP

Your Route to The Destination

Order Information

Model	Description
TSR-MIG2000-08LTE	TSR-MIG2000-08LTE Multi-Service Router (1 Console, 1 USB2.0, 1 GE Combo, 8 GE LAN, built-in full Netcom LTE, 220VAC power supply)
TSR-MIG2000-20C	TSR-MIG2000-20C Multi-Service Router (1 Console, 1 USB2.0, 1 GE Combo, 8 GE LAN, 220VAC power supply)
TSR-MIG2000-20	TSR-MIG2000-20 Multi-Service Router (1 Console, 1 USB2.0, 1 GE Combo, 8 GE LAN, LCD color screen, 220VAC power supply)
TSR-MIG2000-40	TSR-MIG2000-40 Multi-Service Router (1 Console, 1 USB2.0, 1 10GE SFP+, 2 GE SFP, 2 GE TX, 8 GE LAN, LCD color screen, 220VAC power supply)
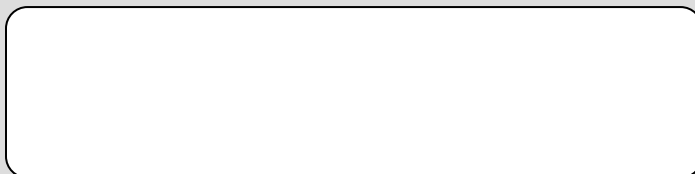
For More details:
visit **:** www.techroutes.com
Or contact
sales@techroutes.com
info@techroutes.com

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