

TR-S2500 Series



S2500 Gigabit Ethernet Switch Series

Product Overview

TR-S2500 Series is a new-generation smart access switch designed for carrier's IP MAN and enterprise networks. Based on the new-generation high-performance hardware and TRROS platform, it supports functions such as ACL, QinQ and QoS.

TR-S2500 Series switches have 3 models: TR-S2510, TR-S2524, TR-S2528GX

Product Characteristics

- **Carrier-Class Ethernet Access Switch**
- TR-S2500 Series supports the telecom-level Ethernet-ring protection protocol with a protection shift time of less than 50ms, STP/RSTP/MSTP, backup of active and standby uplinks, and LACP link aggregation to cater to the requirements of high reliability of carriers;
- TR-S2500 Series has powerful ACL functions to access and control L2-L7 data, providing carriers flexible and various policy control methods;
- TR-S2500 Series supports ISSU (In-Service Software Upgrade), which guarantees the user data non-stop forwarding when the system is upgrading;
- TR-S2500 Series supports various L2 multicast function, including user fast-leave mechanism and cross VLAN multicast replication function.

➤ Rich QOS Policies

- TR-S2500 Series supports complex traffic classification based on VLAN, MAC, source address, destination addresses, IP protocols and priorities. It also supports priority remark. These functions provide an effective way for users to optimize their businesses.
- TR-S2500 Series provides with flexible bandwidth control policies, supporting port-/flow-based flow limit and ensuring the line speed forwarding of each port to make sure the high quality of video, audio and data services
- TR-S2500 Series also supports multiple queue grooming algorithms such as SP, WRR or SP+WRR.

➤ Comprehensive Ipv6 Solutions

- TR-S2500 Series supports the IPv6 protocol suite, IPv6 neighbor discovery and ICMPv6.
- TR-S2500 Series supports IPv6 based Ping, Traceroute, Telnet and SSH, meeting the need of IPv6 network equipment management and service control.

➤ Comprehensive Security Mechanism

- TR-S2500 Series adopts advanced hardware architecture design, realizing the hierarchical scheduling and protection of the packet. It provides multiple security measures to defend against attacks from SYN Flood, UDP Flood, broadcast storm and mass flow of DOS or TCP. It also supports command line authority control based on user levels.
- Comprehensive Security Certification: S2500 Series complies with IEEE 802.1x, Radius and TRTacacs+.
- TR-S2500 Series supports the suppression of broadcast, multicast and unknown unicast packet, ensuring the equipment can operate normally in harsh network conditions.
- TR-S2500 Series has the perfect loop detection mechanism.
- TR-S2500 Series supports the port isolation in a same VLAN, DHCP-Snooping and IP+MAC+ port binding.

➤ Convenient Management and Maintenance

- TR-S2500 Series supports multiple management styles such as Console, Telnet and SSH.
- TR-S2500 Series supports WEB based management. The management is more simple and effective.
- TR-S2500 Series supports upload and download of TFTP files.
- TR-S2500 Series supports ISSU (In-Service Software Upgrade).

Technical Specifications

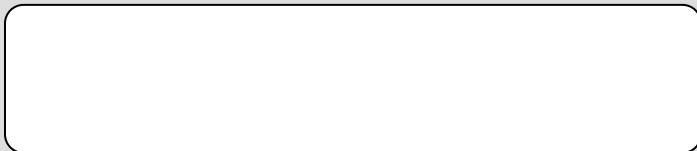
Item	TR-S2510	TR-S2524	TR-S2528GX
Switching capacity	20Gbps	48Gbps	56Gbps
Forwarding rate	14Mpps	35Mpps	41Mpps
Dimensions mm (WxDxH)	240×150×42	442×208×44	440×180×44
Power consumption	<15W	<45W	<45W
Power supply	AC: 100V-240V, 50Hz±10%		
Environment	Operating temperature/humidity: 0°C-50°C, 10%-90% non-condensing		
	Storage temperature/ humidity: -20°C-70°C; 5%-95% non-condensing		
MAC switching function	Static configuration and dynamically learning of MAC address		
	Check and delete MAC address		
	Configuring of MAC address aging time		
	Limit on MAC address learning number		
	MAC address filtering function		
VLAN	4K VLAN entries		
	GVRP		
	1:1 and N:1 VLAN Mapping		
	QinQ		
	Private VLAN		
STP	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP)		
	BPDU protection, root protection and ring protection		
Multicast	IGMP v1/v2/v3		
	IGMP Snooping		
	IGMP Fast Leave		
	Multicast group policy and multicast number limit		
	Multicast traffic cross VLAN duplication		
IPv4	Default Route		
IPv6	ICMPv6, DHCPv6 and IPv6 Telnet		
	IPv6 Neighbor Discovery		
	MLD v1/v2		
	MLD Snooping		
QoS	Traffic classification of each field of L2/L3/L4 protocol headers		
	CAR traffic control		
	802.1P/DSCP priority remark		
	Multiple queuing algorithms such as SP, WRR or SP+WRR		
	Tail-Drop, WRED		
Security features	Traffic supervision and traffic shaping		
	Identification and filtering of L2/L3/L4 based ACL		

	Defend against DDoS attack, SYN Flood attack of TCP or UDP Flood attack
	Suppression of broadcast, multicast and unknown unicast packet
	Port isolation
	Port security, IP+MAC+port binding
	DHCP Snooping, DHCP Option 82
	IEEE 802.1x authentication
	Radius and TRTacacs+ authentication
	Command line authority control based on user levels
Reliability	Static/LACP link aggregation
	ISSU
Management and Maintenance	Console, Telnet, SSH 2.0
	HTTP
	SNMP v1/v2/v3
	Upload and download of TFTP files
	RMON

Ordering Information

Techroutes S2500 Series	
Item	Description
TR-S2510	Ethernet switch with 8 gigabit Base-T ports and 2 gigabit optical ports (1 console port, 8 gigabit Base-T ports, 2 gigabit SFP ports; the standard AC220V power supply, fan less, 1U, desktop or wall-mounted installation)
TR-S2524	Ethernet switch with 20 gigabit Base-T ports and 4 gigabit combo SFP/Base-T ports (1 console port, 20 gigabit Base-T ports, 4 gigabit combo SFP/Base-T ports; the standard AC220V power supply; fan less, 1U, standard 19-inch rack-mounted installation)
TR-S2528GX	Ethernet switch with 24 gigabit optical ports and 4 gigabit combo ports (1 console port, 24 gigabit SFP ports, 4 gigabit SFP/Base-T combo ports; the standard AC220V power supply, the cooling fan, 1U, 19-inch rack-mounted installation)

Copyright ©Techroutes Network Pvt Ltd. 2020. All Rights Reserved. This document is Techroutes Network Public Information. Techroutes Network reserves the right to alter, update and otherwise change the information contained in the document from time to time.



For More details:
 visit : www.techroutes.com
 Or contact
sales@techroutes.com
info@techroutes.com