TR-S2528D Series

Gigabit Ethernet Switch

Product Overview

Techroutes TR-S2528D 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.

Product Characteristics

Carrier-Class Ethernet Access Switch

Techroutes TR-S2528D 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;

Techroutes TR-S2528D Series has powerful ACL functions to access and control L2-L4 data, providing carriers flexible and various policy control methods;

Techroutes TR-S2528D Series supports various L2 multicast function, including user fast-leave mechanism and cross VLAN multicast replication function.

Rich QOS Policies

Techroutes TR-S2528D 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.

Techroutes TR-S2528D 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.

Techroutes TR-S2528D Series also supports multiple queue grooming algorithms such as SP, WRR

Or SP+WRR.

Your Route to The Destination

Comprehensive IPv6 Solutions

Techroutes TR-S2528D Series supports the IPv6 protocol suite, IPv6 neighbor discovery and ICMPv6.

Techroutes TR-S2528D Series supports IPv6 based Ping, Traceroute, Telnet and SSH, meeting the need of IPv6 network equipment management and service control.

Comprehensive   Security Mechanism

Techroutes TR-S2528D 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 broadcast storm and mass flow of TCP. It also supports command line authority control based on user levels.

Comprehensive Security Certification: Techroutes TR-S2528D Series complies with IEEE 802.1x, Radius & Tacacs+.

Techroutes TR-S2528D Series supports the suppression of broadcast, multicast and unknown unicast packet, ensuring the equipment can operate normally in harsh network conditions.

Techroutes TR-S2528D Series has the perfect loop detection mechanism.

Techroutes TR-S2528D Series supports the port isolation in a same VLAN, DHCP-Snooping and IP+MAC+ port binding.

Convenient Management and Maintenance

Techroutes TR-S2528D Series supports multiple management styles such as Console, Telnet and SSH.

Techroutes TR-S2528D Series supports WEB based management. The management is simpler and more effective.

Techroutes TR-S2528D Series supports upload and download of TFTP files.

Techroutes TR-S2528D Series supports SNMP.

Technical Specifications

| Model		TR-S2528D Series
Fixed ports		24*10/100/1000Base-T RJ45 ports, 4*1G/2.5G SFP ports
Management port		1*Console
Switching capacity		68Gbps
Packet forwarding rate		51Mpps
MAC address table		16K
Buffer		12M
Total output BTU (1000BTU/H=293W)		81.88
Noise@25°C(dBA)		<25db
MTBF(H)		> 50,000
MTTR (H)		< 2
Forwarding mode		Store and forward
Flash		512M
DRAM		1G
Jumbo frame		10K
Package	Dimension (WxDxH)mm	535*300*95mm
	Weight (KG) Empty	2.7Kg
Chassis	Dimension (WxDxH)mm	440*180*45mm
	Weight (KG) Empty	1.86KG
Power Supply	AC: 100V-240V	Yes
	DC: -36V--75V	Yes (Optional)
Power Consumption		≤24W
Power Redundancy		Yes (Optional)
Power surge protection		4KV, IEC 61000-4-5 Level X（8/20us）
Ethernet ports surge protection		4KV, IEC 61000-4-5 Level 4（10/700us）
Working Temperature & Humidity		Operating temperature and humidity: 0℃~50℃, 5%-95% non-condensing
Storage Temperature & Humidity		Storage temperature & humidity: -20℃~70℃, 5%-95% non-condensing
Port aggregation LACP		Static and dynamic aggregation
Port features		IEEE802.3x flow control, Port traffic statistics, port isolation
		Network storm suppression based on port bandwidth percentage
VLAN		Access, trunk and hybrid mode,4K VLANs
VLAN Classification		Port Based VLAN, Protocol VLAN
		802.1Q VLAN, VLAN Translation
		Voice VLAN
QinQ		Basic QinQ (Port-based QinQ)
		Flexible QinQ (VLAN-based QinQ)
		QinQ (Flow-based QinQ)

Your Route to The Destination

Port mirroring	Many to one (Port Mirroring)
Layer 2 ring network protocol	802.1D STP,802.1W RSTP,802.1S MSTP, Root Guard/Root Restriction, Loopback detection, Fast Link
	G.8032 ERPS protocol, single ring, sub ring and other ring
DHCP	IPv4/IPv6 DHCP Client, IPv4 DHCP Relay
	Option82, IPv4 DHCP Snooping, IPv4 DHCP Server
ARP	ARP table aging
Routing	IPv4/IPv6 Default Route, Static Route
IPV6	IPv4/v6 Dual stack
	ICMPv6
	Telnet
	Web/SSL
	SSH
	IPv6 neighbour discovery
	IPV6 ACL
IGMP	IGMP V1, V2, V3 Snooping
	IGMP Fast Leave
ACL	IP ACL
	MAC ACL
	MAC-IP ACL
	ACL on VLAN interface
QoS	8 Queues Per Port; Bandwidth Control
	Classification based on ACL, VLAN ID, COS, TOS, DSCP, Policing Based on Port and VLAN
	Single Rate/single barrel/double colour for Policing SP, WRR queue scheduling
	Remark DSCP, COS/802.1p, Precedence. ToS
	SP, WRR, SWRR, DWRR for Scheduling
Security	Storm Control based on packets and bytes
	Port Security, MAC Limit based on VLAN and Port
	IEEE802.1x
	Radius, TACACS+ Authentication, Authorization
	IP source guard, IP/Port/MAC binding
	Port isolation
	Arp-check and ARP packet filtering for illegal users
	Dos Protection, SYN/ARP/ICMP Flood Anti-attack
Management and maintenance	LLDP
	TFTP/FTP, CLI, Telnet, Console (RJ45)
	Web/SSL(IPv4/IPv6) SSH (IPv4/IPv6)
	SNMP V1/V2/V3
	RMON
	Ping, Trace Route
	Syslog (IPv4/IPv6)
	SNTP/NTP (IPv4/IPv6) Dual IMG

	Mirror, CPU Mirror
	Sflow
	OAM EFM, DDM
	Dying Gasp

Ordering Information

Item	Description
TR-S2528D	Ethernet switch with 24*10/100/1000Base-T RJ45 ports and 4*1G/2.5G SFP ports (1 Console port, 24*10/100/1000Base-T RJ45 ports & 4*1G/2.5G SFP ports; 220VAC power supply,1U, standard 19-inch rack-mounted installation)
TR-S2528D-2AC	Ethernet switch with 24*10/100/1000Base-T RJ45 ports and 4*1G/2.5G SFP ports (1 Console port, 24*10/100/1000Base-T RJ45 ports & 4*1G/2.5G SFP ports; 220VAC dual Redundant Power Supply,1U, standard 19-inch rack-mounted installation)
TR-S2528D-DC	Ethernet switch with 24*10/100/1000Base-T RJ45 ports and 4*1G/2.5G SFP ports (1 Console port, 24*10/100/1000Base-T RJ45 ports & 4*1G/2.5G SFP ports; 48VDC power supply,1U, standard 19-inch rack-mounted installation)
TR-S2528D-AC-DC	Ethernet switch with 24*10/100/1000Base-T RJ45 ports and 4*1G/2.5G SFP ports (1 Console port, 24*10/100/1000Base-T RJ45 ports & 4*1G/2.5G SFP ports; 220VAC & 48VDC redundant power supply,1U, standard 19-inch rack-mounted installation)
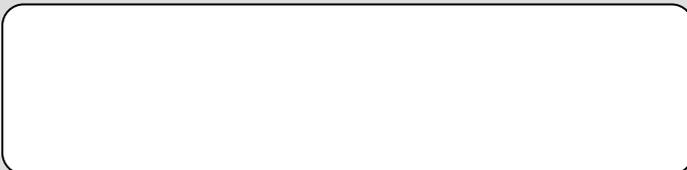
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