



## TR-MS2910 10Gigabit Ethernet Switch

### Product Overview

TR-MS2910 is a Layer 2+ highly reliable managed switch, which features 8-port 10/100/1000Base-T RJ45 and 2\*1G/2.5G/10G SFP ports. It supports Layer 3 static routing with a high-performance switching architecture and offers wire-speed transportation capability for delivering a cost-effective Gigabit Ethernet solution to meet the converged applications for enterprise customer's networks. More and more corporations are adapting new IT technologies over the network such as voice over IP, video conference to improve productivity and save operation expenditure. The TR-MS2910 provides comprehensive end to end QoS as well as flexible and rich management, security settings, which can meet the high speed, secure and smart requirement for small and medium-size enterprise networks based on cost effective price.

### Product Characteristics

Layer 3 routing features: Supports static routing

Port aggregation: Supports GE ports, 2.5GE port and 10GE port aggregation, static and dynamic aggregation

VLAN: Supports access, trunk, hybrid mode and VLAN classification, including the Mac based VLAN, IP based VLAN and protocol based VLAN

QinQ: Supports port-based, VLAN-based and flow-based QinQ

Port Mirroring: Many to one port mirroring

Layer 2 ring network protocol: Supports STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring

Multicast: Supports IGMP V1, V2, V3 and IGMP snooping

QoS: QoS class, remarking, Supports SP, WRR queue scheduling, Ingress/Egress port-based rate-limit and policy-based QoS

Security: Support Dot1x, port authentication, mac authentication, RADIUS; Support port-security, ip source guard, IP/Port/MAC binding, arp-check and ARP packet filtering for illegal users and port isolation

Management: Supports LLDP, user management and login authentication; SNMPV1/V2C/V3; web management, HTTP, HTTPS; Syslog and alarm grading; RMON ( Remote

Monitoring) alarm, event and history record; NTP, Ping, Tracert and optical transceiver DDM function; Supports TFTP, Telnet, SSH and IPv6 Management

Centralized Cloud Managed: The Megh Cloud Management System is built for scale. Whether you're managing a few switches or a vast multi-site infrastructure, you can do it all from a single, centralized dashboard. Seamlessly integrate with your existing Megh network.

Firmware update, configure backup/restore through Web GUI, FTP and TFTP

## Technical Specifications

|                                     |                                                                                                                                                  |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                               | TR-MS2910                                                                                                                                        |
| Fixed ports                         | 8*10/100/1000M RJ45 ports,2*1G/2.5G/10G SFP+ slots                                                                                               |
| Switching capacity                  | 56Gbps                                                                                                                                           |
| Packet forwarding rate              | 41.66Mpps                                                                                                                                        |
| Console port                        | 1                                                                                                                                                |
| Flash                               | 512M                                                                                                                                             |
| RAM                                 | 512M                                                                                                                                             |
| MAC address table                   | 16K                                                                                                                                              |
| Jumbo Frame                         | 10K                                                                                                                                              |
| Buffer Size                         | 12M bit                                                                                                                                          |
| Total output BTU (1000BTU/H=293W)   | 51                                                                                                                                               |
| Noise@25°C(dBA)                     | Fanless                                                                                                                                          |
| MTBF(H)                             | > 200,000                                                                                                                                        |
| FAN                                 | Fanless, natural heat dissipation                                                                                                                |
| Dimension (WxDxH)mm                 | 152x115x44, Rack Mountable                                                                                                                       |
| Weight (KG)                         | 1.2                                                                                                                                              |
| Power Supply                        | DC: -12V~-58V                                                                                                                                    |
| Power Consumption No-Load           | ≤10W                                                                                                                                             |
| Power Consumption Full-Load         | ≤15W                                                                                                                                             |
| Operating & Storage temperature     | 0°C~50°C & -20°C~75°C                                                                                                                            |
| Working & Storage relative humidity | 10%~90% & 5%~95%                                                                                                                                 |
| Forwarding mode                     | Store-forward                                                                                                                                    |
| Port aggregation                    | 10GE port aggregation<br>2.5GE aggregation<br>Static aggregation<br>Dynamic aggregation                                                          |
| Port features                       | IEEE802.3x flow control<br>Interface counters<br>Port isolation<br>Storm control<br>Network storm suppression based on port bandwidth percentage |
| Mac-address table management        | Static Mac-address management<br>Dynamic Mac-address Management<br>Filtering Mac-address<br>MAC limit based on port and VLAN                     |

|                               |                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | MAC flapping based on port and VLAN                                                                                                                                        |
| VLAN                          | 4K, Access, trunk and hybrid mode                                                                                                                                          |
| VLAN Classification           | Mac Based VLAN<br>IP Based VLAN<br>Protocol Based VLAN                                                                                                                     |
| GVRP                          | Normal mode<br>Fixed mode<br>Forbidden mode                                                                                                                                |
| QinQ                          | Port-based QinQ<br>VLAN-based QinQ<br>Flow-based QinQ                                                                                                                      |
| LLDP                          | LLDP (Link Layer Discovery Protocol)                                                                                                                                       |
| Port mirroring                | Many to one (Port Mirroring)                                                                                                                                               |
| Layer 2 ring network protocol | STP<br>RSTP<br>MSTP                                                                                                                                                        |
| G.8032                        | G.8032 ERPS protocol, single ring, sub-Ring and major ring<br>Recovery time $\leq 20\text{ms}$                                                                             |
| Loop Detect                   | Detect based on ports<br>Detect based on ports and VLAN                                                                                                                    |
| Multicast                     | IGMP Fast Leave<br>IGMP snooping<br>IGMP V1, V2, V3                                                                                                                        |
| IP                            | IPv4 Static Route<br>ARP Table Aging                                                                                                                                       |
| IPv6                          | IPv6 Management<br>IPv6 static routing<br>ICMPv6 and IPv6 Telnet<br>IPv6 neighbor discovery<br>Path MTU discovery                                                          |
| DHCP                          | DHCP Server<br>DHCP client<br>DHCP snooping trust port<br>Remote-id/circuit-id configuration<br>DHCP option-82                                                             |
| ACL                           | IP Standard ACL<br>MAC extend ACL<br>IP extend ACL<br>IPv6 ACL                                                                                                             |
| QoS                           | QoS Class, remarking<br>SP, WRR queue scheduling<br>Ingress port-based rate-limit<br>Egress port-based rate-limit<br>Policy-based QoS                                      |
| Security                      | Port Security, Dot1x, port authentication, MAC authentication, RADIUS, TACACS, ARP Source Guard, IP Port/MAC binding, ARP-check and ARP packet filtering for illegal users |

|                            |                                                                                                                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Centralized Cloud Managed  | The Megh Cloud Management System is built for scale. Whether you're managing a few switches or a vast multi-site infrastructure, you can do it all from a single, centralized dashboard. Seamlessly integrate with your existing Megh network                                      |
| Management and maintenance | User management and login authentication<br>Console<br>Telnet<br>SSH<br>Web management, HTTP, HTTPS<br>SNMPV1/V2C/V3<br>Syslog and alarm grading<br>RMON<br>NTP<br>Sflow<br>Temperature monitoring<br>Ping, Tracert<br>Cable detection<br>DDM<br>TFTP<br>Dual partition management |

## Ordering Information

| Techroutes TR-MS2910 Series |                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Item                        | Description                                                                                                                |
| TR-MS2910                   | Layer 2 Ethernet switch with 8xGE ports and 2xG/2.5G/10G SFP+ ports<br>1 console port, 48VDC power supply, Rack Mountable) |

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