

## TR-IES-2510-P



### Industrial Grade Gigabit Ethernet POE Switch

TR-IES-2510-P series is 10-port industrial Ethernet switches, which supports auto negotiation, Offers 8x 10/100/1000M-TX POE ports, 2xGE-SFP Ports. Support POE function, each port offers up to 30W to PDs. It's plug and play, designed in wide operating temperature from -40°C to 75°C, with performance of dust/salt fog proof, make it completely suitable for harsh environments.

#### Technical Specification

|                                      | TR-IES-2510-P  |
|--------------------------------------|--|
| <b>Ports</b>                         | 8x10/100/1000M TX POE Ports, 2xGE-SFP Ports, Micro USB connector, RS232 TX/RX  |
| <b>Backplane</b>                     | 20 Gbps  |
| <b>Forwarding</b>                    | Full wire-speed filtering and forwarding , Packet forwarding rate: 14.88 Mpps  |
| <b>Packet Buffers</b>                | 4Mbit  |
| <b>Switching Delay</b>               | <5μS   |
| <b>Switching</b>                     | Store forwarding   |
| <b>MAC table</b>                     | 8K   |
| <b>Flow control</b>                  | IEEE802.3x flow control, back pressure   |
| <b>Mirror</b>                        | Port mirroring, port speed limit   |
| <b>Storm control</b>                 | Unicast, Multicast and Broadcast storm control   |
| <b>Multicast</b>                     | IGMP v1/v2/v3 Snooping, MLD v1/v2Snooping  |
| <b>QoS</b>                           | IEEE802.1p 8 active priorities queues for per port, IEEE802.1p based CoS, IP Precedence based CoS, IP DSCP based CoS |
| <b>Traffic Classification</b>        | QCL(QoS Control List): MAC Access control list (Source/Destination MAC, Ether type, Priority ID/ VLAN ID)            |
| <b>Bandwidth control for Ingress</b> | Rate in steps : 100 kbps<br>Range : 100 kbps to 1Gbps<br>Rate Unit : bit   |

|                                     |  |
|-------------------------------------|--|
| <b>Bandwidth control for Egress</b> | Rate in steps : 100 kbps<br>Range : 100 kbps to 1Gbps<br>Rate Unit : bit<br>Per queue shaper   |
| <b>Aggregation</b>                  | LACP/Link Aggregation Static   |
| <b>Protocol Standard</b>            | IEEE802.3i/802.3u/802.3z/802.3ab/802.3x/802.3ad/802.1p/802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/802.1x/802.1ab/802.3af/802.3at  |
| <b>Spanning Tree</b>                | STP/RSTP/MSTP/ITU-T G.8032 Ethernet Ring Protection/TR-Ring/IPv4/IPv6  |
| <b>Ring Protection</b>              | IEEE802.17/equivalent for sub 50ms ring protection   |
| <b>VLAN</b>                         | IEEE802.1Q VLAN/MAC based VLAN/Protocol based VLAN /IP subnet based VLAN/Q-in-Q/GVRP/MVR, IEEE802.3ac VLAN tagging   |
| <b>VLAN table</b>                   | 4K   |
| <b>Management</b>                   | Web Management, CLI-Console/Telnet, SNMPv1/v2/v3, RMON/System syslog,NTP   |
| <b>Secure Channel</b>               | Secure channel by SSL/SSH, FTP,TFTP, DAI, LAG, GUI, LLDP, LLDP-MED   |
| <b>Network security</b>             | Port-based IEEE802.1X/Single and multiple IEEE802.1X/MAC-based authentication/VLAN Assignment/ IP source guard/RADIUS/TACACS+/ACL/SSHv2/HTTPS                              |
| <b>DNS</b>                          | DNS client/proxy   |
| <b>DHCP</b>                         | DHCP Client/Relay/snooping   |
| <b>Size</b>                         | 55×128×155mm   |
| <b>Shell</b>                        | Metal, Fan less, IP40 protection level   |
| <b>Weight</b>                       | 1.0Kg  |
| <b>Installation</b>                 | DIN-Rail/Wall mounting   |
| <b>EMI</b>                          | FCC Part15 Class B, EN50155,EN50121,EN55022,EN55024  |
| <b>EMS</b>                          | IEC61000-4-2(ESD)Level3,IEC61000-4-3(RS)exceeds Level 3,IEC61000-4-4(EFT)Level3,IEC61000-4-5(Surge)Level3,IEC61000-4-6(CS)Level 2,IEC61000-4-8,IEC61000-4-11,IEC61000-4-16 |
| <b>Mechanical</b>                   | Vibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32  |
| <b>Power Input</b>                  | 48VDC  |
| <b>Power Redundant</b>              | Yes (optional)   |
| <b>Power Connection</b>             | 7cores 5.08mmspacing inset into terminal   |
| <b>Alarm Connection</b>             | 7cores 5.08mmspacing inset into terminal   |
| <b>Power Protection</b>             | Reverse connection protection, Over voltage protection, Over current protection, Alarm output  |
| <b>Rated Power</b>                  | ≤10W   |
| <b>POE</b>                          | IEEE802.3af-2003,IEEE802.3at-2009  |
| <b>POE Power</b>                    | 240 Watt Max   |
| <b>Indicator</b>                    | Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)  |
| <b>Environment</b>                  | Operating Temperature: -40°C ~+75°C<br>Storage Temperature: -40°C ~+85°C<br>Relative Humidity: 5~95%(No condensation)  |



**Order Information:**

|               |  |
|---------------|--|
| TR-IES-2510-P | Industrial Ethernet switch (1 console port, 8x10/100/1000M TX POE Ports,2xGE-SFP Ports, Micro USB connector, RS232 TX/RX, 48VDC Power Input) |
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