Techroutes
N E T W O R K

TR-IES-3936-P

Industrial Grade Gigabit Ethernet Switch

TR-IES-3936-P is 36-port industrial grade fully managed Layer 3 Ethernet POE switches, which supports auto negotiation, Offers 24xGigabit Ethernet POE ports, 8xGigabit SFP Ports, 4x10G SFP+ Ports. Its plug and play, designed in wide operating temperature from -40ºC to 75ºC, with performance of dust/salt fog proof, make it completely suitable for harsh environments.

Technical Specification

	TR-IES-3936-P
Ports	24x10/100/1000BaseT RJ45 POE Ports, 4x1G SFP Ports, 4x10G SFP+ Micro USB connector, RS232 TX/RX
Backplane	144Gbps
Forwarding	Full wire-speed filtering and forwarding, Packet forwarding rate: 107 Mpps
Packet Buffers	32Mbit
Switching Delay	<5μS
Switching	Store forwarding
MAC table	32K
Flow control	IEEE802.3x flow control, back pressure flow control
IPv4/Ipv6	Support
Jumbo Frame	9K
Mirror	Port mirroring, port speed limit
Storm control	Broadcast and multicast storm control
Multicast	IGMP v1/v2/v3 Snooping, MLD v1/v2Snooping
QoS	IEEE802.1p 8 active priorities queues for per port, IEEE802.1p based CoS, IP Precedence based CoS, IP DSCP based CoS
Traffic Classification	QCL(QoS Control List): MAC Access control list (Source/Destination MAC, Ether type, Priority ID/ VLAN ID)

Bandwidth control for Ingress	Rate in steps : 100 kbps Range : 100 kbps to 1Gbps Rate Unit : bit
Bandwidth control for Egress	Rate in steps : 100 kbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue shaper
Aggregation	LACP/Link Aggregation Static
Protocol Standard	IEEE802.3i/802.3u/802.3z/802.3x/802.3ad/802.1p/802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/802.1x/802.1ab
Spanning Tree	STP/RSTP/MSTP/TR-Ring/Ipv4/Ipv6
IEEE 1588PTP	Support (Optional)
Routing	Static, RIP,OSPF
Redundancy	VRRP
Ring Protection	Support ITU-TG.8032 Ethernet Ring protection
VLAN	IEEE802.1Q VLAN/MAC based VLAN/Protocol based VLAN /IP subnet based VLAN/Q-in-Q/GVRP/MVR,IEEE802.3ac VLAN tagging
VLAN table	4K
Management	Web, CLI, Telnet, SSH, SNMPv1/v2/v3, RMON/System syslog
Secure Channel	Secure channel by SSL/SSH, FTP, DAI, LAG, GUI, LLDP, LLDP-MED
Network security	Port-based IEEE802.1X/Single and multiple IEEE802.1X/MAC-based authentication/VLAN Assignment/ IP source guard/RADIUS/TACACS+/ACL/SSHv2/HTTPS
DNS	DNS client/proxy
DHCP	DHCP Server/Client/Relay/snooping
Size	440×335×44mm
Shell	Metal, Fan less, IP40 protection level
Weight	3.5Kg
Installation	1U Rack
EMI	FCC Part15, Subpart B, Class A and EN55002 Class A
EMS	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
Mechanical	Vibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32
Power Input	DC: 48V
Power Redundancy	Yes (Optional)
Power Connection	5 Pin 5.08mm block terminal
Alarm Connection	3 Pin 3.81mm block terminal
Power Protection	Reverse connection protection, Over voltage protection, Over current protection, Alarm output
Rated Power	≤40W
POE/POE+	IEEE802.3af & IEEE802.3at support
POE Power	720 Watt
Indicator	Power: P1, P2,Alarm:A, Run system/Ring: Run POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)
Environment	Operating Temperature: -40℃～75℃ Storage Temperature: -40℃～85℃ Relative Humidity: 5～95%non condensing

Your Route to The Destination

Order Information:

TR-IES-3936-P	Industrial Ethernet switch (1 console port, 24x10/100/1000M RJ 45 POE Ports,8xGigabit SFP Ports,4x10G SFP+ Ports, Micro USB connector, RS232 TX/RX, 48VDC Power Input)
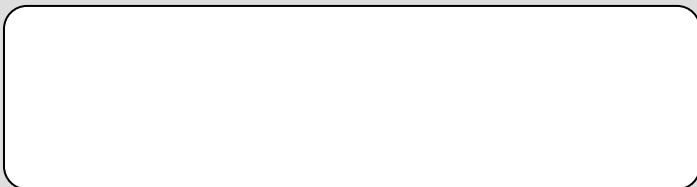
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Your Route to The Destination