Techroutes
N E T W O R K

TR-IES-2512

Industrial Grade Gigabit Ethernet Switch

TR-IES-2512 series is 12-port industrial Ethernet switches, which supports auto negotiation, Offers 8x 10/100/1000BaseTX ports, 4x100/1000BaseX-SFP Ports. Its plug and play, designed in wide operating temperature from -40ºC to 85ºC, with performance of dust/salt fog proof, make it completely suitable for harsh environments.

Technical Specification

	TR-IES-2512
Ports	8x10/100/1000Base-TX Ports, 4x100/1000Base-X-SFP Ports, Micro USB connector, RS232 TX/RX
Backplane	24 Gbps
Forwarding	Full wire-speed filtering and forwarding , Packet forwarding rate: 17.75Mpps
Packet Buffers	4Mbit
Switching Delay	<5µS
Switching	Store forwarding
MAC table	8K
Flow control	IEEE802.3x flow control, back pressure
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)

Your Route to The Destination

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
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	GUI, 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	85×105×155mm
Shell	Metal, Fan less, IP40 protection level
Weight	1.0Kg
Installation	DIN-Rail/Wall mounting
EMI	FCCCFR47Partl5. EN55022／ClSPR22. ClassA
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	48VDC
Power Redundant	Yes
Power Connection	7cores 5.08mmspacing inset into terminal
Alarm Connection	7cores 5.08mmspacing inset into terminal
Power Protection	Reverse connection protection, Over voltage protection, Over current protection, Alarm output
Rated Power	≤15W
Indicator	Power: P1, P2,Alarm:A, Run system/Ring: Run Connector: Link/Act, Speed (RJ45), Link/Act(SFP)
Environment	Operating/Storage Temperature: -40℃～+85℃, Relative Humidity: 5～95%(No condensation)

Order Information:

TR-IES-2512	Industrial Ethernet switch (1 console port, 8x10/100/1000M TX Ports,4xGE-SFP Ports, Micro USB connector, RS232 TX/RX, -48VDC Power Input)

Your Route to The Destination