

TR-IES-2512-P



Industrial Grade Gigabit Ethernet POE Switch

TR-IES-2512-P series is 12-port industrial Ethernet switches, which supports auto negotiation, Offers 8x 10/100/1000BaseTX POE ports, 4x100/1000BaseX-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 85°C, with performance of dust/salt fog proof, make it completely suitable for harsh environments.

Technical Specification

	TR-IES-2512-P
Ports	8x10/100/1000Base-TX POE 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	<5μ\$
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	QCL(QoS Control List): MAC Access control list (Source/Destination MAC, Ether type,
Classification	Priority ID/ VLAN ID)



Bandwidth control for Ingress Range: 100 kbps to 16bps Rate Unit: bit Bandwidth control for Egress Rate in steps: 100 kbps to 16bps Rate Unit: bit Aggregation LACP/Link Aggregation Static Protocol Standard IEEE802.31/802.3u/802.3z/802.3x/802.3av/802.1ay/802.1q/802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/802.3x/802.abd/802.7p/802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/802.3az/802.3av/802.3ad/802.1p/802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/802.3az/802.3av/802.3ad/802.7p/802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/802.3az/802.3av/802.3ad/802.1p/802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/802.3az/802.3av/802.3ad/802.1p/802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az		
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Bandwidth control for Egress Rate in steps: 100 kbps to 16bps Range: 100 kbps to 16bps Rate Unit: bit Per queue shaper Aggregation LACP/Link Aggregation Static Protocol Standard Ag/802.3a/802.3a/802.3a/802.3a/802.3a/802.1p/802.1q/802.1d/802.1w/802.1s/802.1 ad/802.3a/802.3a/802.3a/802.3a/802.3a/802.3a/802.1p/802.1q/802.1d/802.1w/802.1s/802.1 Spanning Tree STP/RSTP/MSTP/TR-Ring/IPv4/Ipv6 IEEE 1588PTP 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 Por-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 85x105x155mm Shell Metal, Fan less, IP40 protection level Weight 1.0Kg Installation DIN-Rail/Wall mounting EMI FCC Part15, Subpart B, Class A and EN55002 Class A EMS IEC6100	for Ingress	Range: 100 kbps to 1Gbps
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Rate Unit : bit Per queue shaper Aggregation LACP/Link Aggregation Static Protocol Standard BEE802.3i/802.3u/802.3z/802.3x/802.3a/802.1p/802.1q/802.1d/802.1w/802.1s/802.1 Ag/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 Q/GVRP/MVR, IEEE802.3ac VLAN/Protocol based VLAN/IP subnet based VLAN/Q-in-Q/GVRP/MVR, IEEE802.3ac VLAN tagging VLAN table 4K Management 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 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 FCC Part15, Subpart B, Class A and EN55002 Class A IEC61000-4-2(ESD)Level3,IEC61000-4-3(RS)exceeds Level 3,IEC61000-4-4(EFT)Level3,IEC61000-4-16 Mechanical Power Power Input 48VDC Power Redundant Ves (Optional) Power Redundant Power Connection Alarm Connection Reverse connection protection, Over voltage protection, Over current protection, Alarm output Rated Power S15W POE Netter Sand Russes May 1, Nun system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Devironment Environment Poweric Math As Connection (Alarm) output Power Power: pl, P2, Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Power Department Carres Sand Russes Carres SC,	for Egress	Range: 100 kbps to 1Gbps
Aggregation LACP/Link Aggregation Static		Rate Unit : bit
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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 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,IEC61000-4-16 Mechanical Vibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32 Power Input 48VDC Power Redundant Yes (Optional) 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 POE IEEE802.3af,IEEE802.3at POE IEEE802.3af,IEEE802.3at POE Qualt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE <	Management	GUI, CLI, Telnet, SSH, SNMPv1/v2/v3, RMON/System syslog
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 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 Power Redundant Yes (Optional) Power Connection Alarm Connection Alarm Connection Reverse connection protection, Over voltage protection, Over current protection, Alarm output Rated Power S15W POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,	Secure Channel	secure channel by SSL/SSH, FTP, DAI, LAG, GUI, LLDP, LLDP-MED
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 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 48VDC Power Redundant Yes (Optional) 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 POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C ~+85°C,	Network security	Port-based IEEE802.1X/Single and multiple IEEE802.1X/MAC-based authentication/VLAN
DHCPDHCP Server/Client/Relay/snoopingSize85×105×155mmShellMetal, Fan less, IP40 protection levelWeight1.0KgInstallationDIN-Rail/Wall mountingEMIFCC Part15, Subpart B, Class A and EN55002 Class AEMSIEC61000-4-2(ESD)Level3,IEC61000-4-3(RS)exceeds Level 3,IEC61000-4-4(EFT)Level3,IEC61000-4-15(Surge)Level3,IEC61000-4-6(CS)Level 2,IEC61000-4-8,IEC61000-4-16MechanicalVibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32Power Input48VDCPower RedundantYes (Optional)Power Connection7cores 5.08mmspacing inset into terminalAlarm Connection7cores 5.08mmspacing inset into terminalPower ProtectionReverse connection protection, Over voltage protection, Over current protection, Alarm outputRated Power\$15WPOEIEEE802.3af,IEEE802.3atPOE Power240 Watt MaxIndicatorPower: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)EnvironmentOperating/Storage Temperature: -40°C ~+85°C,		Assignment/ IP source guard/RADIUS/TACACS+/ACL/SSHv2/HTTPS
Size85×105×155mmShellMetal, Fan less, IP40 protection levelWeight1.0KgInstallationDIN-Rail/Wall mountingEMIFCC Part15, Subpart B, Class A and EN55002 Class AEMSIEC61000-4-2(ESD)Level3,IEC61000-4-3(RS)exceeds Level 3,IEC61000-4-4(FFT)Level3,IEC61000-4-16MechanicalVibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32Power Input48VDCPower RedundantYes (Optional)Power Connection7cores 5.08mmspacing inset into terminalAlarm Connection7cores 5.08mmspacing inset into terminalPower ProtectionReverse connection protection, Over voltage protection, Over current protection, Alarm outputRated Power515WPOEIEEE802.3af,IEEE802.3atPOE Power240 Watt MaxIndicatorPower: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)EnvironmentOperating/Storage Temperature: -40°C ~+85°C,	DNS	DNS client/proxy
Size85×105×155mmShellMetal, Fan less, IP40 protection levelWeight1.0KgInstallationDIN-Rail/Wall mountingEMIFCC Part15, Subpart B, Class A and EN55002 Class AEMSIEC61000-4-2(ESD)Level3,IEC61000-4-3(RS)exceeds Level 3,IEC61000-4-4(FFT)Level3,IEC61000-4-16MechanicalVibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32Power Input48VDCPower RedundantYes (Optional)Power Connection7cores 5.08mmspacing inset into terminalAlarm Connection7cores 5.08mmspacing inset into terminalPower ProtectionReverse connection protection, Over voltage protection, Over current protection, Alarm outputRated Power515WPOEIEEE802.3af,IEEE802.3atPOE Power240 Watt MaxIndicatorPower: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)EnvironmentOperating/Storage Temperature: -40°C ~+85°C,	DHCP	DHCP Server/Client/Relay/snooping
Weight 1.0Kg Installation DIN-Rail/Wall mounting 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 48VDC Power Redundant Yes (Optional) 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 POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,	Size	85×105×155mm
InstallationDIN-Rail/Wall mountingEMIFCC Part15, Subpart B, Class A and EN55002 Class AEMSIEC61000-4-2(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,IEC61000-4-16MechanicalVibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32Power Input48VDCPower RedundantYes (Optional)Power Connection7cores 5.08mmspacing inset into terminalAlarm Connection7cores 5.08mmspacing inset into terminalPower ProtectionReverse connection protection, Over voltage protection, Over current protection, Alarm outputRated Power≤15WPOEIEEE802.3af,IEEE802.3atPOE Power240 Watt MaxIndicatorPower: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)EnvironmentOperating/Storage Temperature: -40°C~+85°C,	Shell	Metal, Fan less, IP40 protection level
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 48VDC Power Redundant Yes (Optional) 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 POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C∼+85°C,	Weight	1.0Kg
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 (Optional) 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 POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C∼+85°C,	Installation	DIN-Rail/Wall mounting
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 (Optional) 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 POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C∼+85°C,	EMI	FCC Part15, Subpart B, Class A and EN55002 Class A
MechanicalVibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32Power Input48VDCPower RedundantYes (Optional)Power Connection7cores 5.08mmspacing inset into terminalAlarm Connection7cores 5.08mmspacing inset into terminalPower ProtectionReverse connection protection, Over voltage protection, Over current protection, Alarm outputRated Power≤15WPOEIEEE802.3af,IEEE802.3atPOE Power240 Watt MaxIndicatorPower: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)EnvironmentOperating/Storage Temperature: -40°C~+85°C,	EMS	IEC61000-4-2(ESD)Level3,IEC61000-4-3(RS)exceeds Level 3,IEC61000-4-
MechanicalVibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32Power Input48VDCPower RedundantYes (Optional)Power Connection7cores 5.08mmspacing inset into terminalAlarm Connection7cores 5.08mmspacing inset into terminalPower ProtectionReverse connection protection, Over voltage protection, Over current protection, Alarm outputRated Power≤15WPOEIEEE802.3af,IEEE802.3atPOE Power240 Watt MaxIndicatorPower: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)EnvironmentOperating/Storage Temperature: -40°C~+85°C,		4(EFT)Level3,IEC61000-4-5(Surge)Level3,IEC61000-4-6(CS)Level 2,IEC61000-4-
Power Input 48VDC Power Redundant Yes (Optional) 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 POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,		8,IEC61000-4-11,IEC61000-4-16
Power Redundant Yes (Optional) 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 POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,	Mechanical	Vibration:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32
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 POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,	Power Input	48VDC
Alarm Connection7cores 5.08mmspacing inset into terminalPower ProtectionReverse connection protection, Over voltage protection, Over current protection, Alarm outputRated Power≤15WPOEIEEE802.3af,IEEE802.3atPOE Power240 Watt MaxIndicatorPower: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)EnvironmentOperating/Storage Temperature: -40°C~+85°C,	Power Redundant	Yes (Optional)
Power Protection Reverse connection protection, Over voltage protection, Over current protection, Alarm output Rated Power ≤15W POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,	Power Connection	7cores 5.08mmspacing inset into terminal
output Rated Power ≤15W POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,	Alarm Connection	7cores 5.08mmspacing inset into terminal
Rated Power ≤15W POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,	Power Protection	Reverse connection protection, Over voltage protection, Over current protection, Alarm
POE IEEE802.3af,IEEE802.3at POE Power 240 Watt Max Indicator Power: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,		output
POE Power 240 Watt Max Indicator Power: P1, P2, Alarm: A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: -40°C~+85°C,	Rated Power	≤15W
IndicatorPower: P1, P2,Alarm:A, Run system/Ring: Run, POE Connector: Link/Act, Speed (RJ45), Link/Act(SFP)EnvironmentOperating/Storage Temperature: -40°C~+85°C,	POE	IEEE802.3af,IEEE802.3at
Connector: Link/Act, Speed (RJ45), Link/Act(SFP) Environment Operating/Storage Temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$,	POE Power	240 Watt Max
Environment Operating/Storage Temperature: -40°C∼+85°C,	Indicator	Power: P1, P2, Alarm: A, Run system/Ring: Run, POE
		Connector: Link/Act, Speed (RJ45), Link/Act(SFP)
Relative Humidity: $5\sim$ 95%(No condensation)	Environment	Operating/Storage Temperature: -40 $^{\circ}$ C \sim +85 $^{\circ}$ C,
		Relative Humidity: $5\sim$ 95%(No condensation)



Order Information:

1 1 R-1F5-2512-P	Industrial Ethernet switch (1 console port, 8x10/100/1000M TX POE Ports, 4xGE-SFP Ports,
	Micro USB connector, RS232 TX/RX, 48VDC Power Input)



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