



RIS 5220P series

16- port full Gigabit POE + managed industrial Ethernet switch

Product Features

- 16 Gigabit electrical ports support IEEE 802.3af/at PoE , and 4 Gigabit SFP optical port uplinks;
- Supports IEEE802.3af&at PoE standard, the maximum output power of the whole machine is 150W ;
- Gigabit electrical port 10/100/1000 M adaptive, full/half duplex, MDI/MDIX adaptive mode;
- Support multiple redundancy protocols such as ERPS / PVTRING / MSTP/RSTP/STP;
- Supports management functions such as QoS, VLAN, IGMP Snooping;
- Supports security technologies such as HTTPS/SSL, SSH, user classification, port isolation, IPSG, arp attack prevention, etc.;
- Supports CLI, Telnet, Web multiple management methods and network management software based on SNMPv1/v2c/v3;
- Support DDM

- The power supply supports overload protection, reverse connection protection and redundancy protection;
- IP40 protection level, fanless cooling ;
- Adopting industrial-grade power supply design, a variety of power input solutions are available to meet users' flexible applications;
- -40°C~75°C operating temperature, meeting industrial application scenarios .
- Default rail, optional wall mounting.

Switch Specifications

Network Interface	
Port description	Supports 16 10/100/1000Base-TX Ethernet PoE + ports, 4 Gigabit SFP slots
power supply	
power input	DC power supply: Dual redundant power supply 48VDC (44~57 VDC)
Power consumption	No load: ≤6W@48VDC Full load: ≤15W@48VDC (non-POE power supply); ≤170W@48VDC (POE power supply)
POE output power	≤ 150W
Protect	Support overload protection, reverse connection protection and redundancy protection (LV)
POE characteristics	
POE power supply standard	Support IEEE802.3af/at standard POE power supply
Single port output power	15/30W, IEEE802.3af/at
Power supply pin	1/2(+), 3/6(-); 4-core power supply
technology	
Ethernet specifications	IEEE 802.3: 10Base-T IEEE 802.3u: 100Base-TX and 100Base-FX IEEE 802.3z: 1000BaseX IEEE 802.3ab: 1000Base-T IEEE 802.3af: Standard PoE output power 15.4W IEEE 802.3at: Standard PoE + output power 30W IEEE 802.3x: Flow Control IEEE 802.3ad: LACP (Port Aggregation Control Protocol) IEEE 802.1D: STP (Spanning Tree Protocol)

	<p>IEEE 802.1p: COS (Class of Service)</p> <p>IEEE 802.1Q: VLAN tag</p> <p>IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol)</p> <p>IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol)</p> <p>IEEE 802.1AB for LLDP link layer discovery protocol</p>
MAC address table	8K
priority queue	8
jumbo frame	9712 Bytes
Processing method	store and forward
Switch Features	<p>Exchange delay time: <10μs</p> <p>Switch backplane bandwidth: 56Gbps</p> <p>Number of VLANs: 4094</p> <p>IGMP multicast group: 512</p> <p>Support port speed limit</p>
security features	<p>ACL access control list</p> <p>CPU attack defense</p> <p>A RP security configuration</p> <p>IP source attack defense</p> <p>MAC-based port security mechanism</p> <p>DHCP-Snooping</p> <p>HTTPS / SSH Enhanced Network Security Protocol</p> <p>RADIUS security certification</p> <p>Network isolation via VLAN (802.1Q)</p> <p>SNMP v1/v2c/v3 encryption authentication and access control</p>
Software features	<p>Support IPv4, IPv6 static unicast routing</p> <p>Support DHCP server/DHCP client</p> <p>Support DHCP snooping</p> <p>Support MSTP/RSTP/STP</p> <p>Support pvtrng : switching time <50ms</p> <p>Support QoS (802.1p/DSCP) traffic priority management</p> <p>Supports VLAN (802.1Q) with VLAN tag</p> <p>Support Q INQ</p> <p>Support IGMP v1/v2 (IGMP snooping) multicast management</p> <p>Support LLDP</p> <p>Supports SNMP v1/v2/v3 encryption authentication and access control</p> <p>Support RMON</p> <p>Support ACL</p> <p>Support port isolation</p> <p>Support port speed limit</p> <p>Support port loopback detection</p> <p>Support storm suppression</p> <p>Support port mirroring</p> <p>Support port aggregation (Trunk/LACP)</p> <p>Support port traffic monitoring and traffic statistics</p>

	<ul style="list-style-type: none"> Support static MAC binding Support port flow control function Support SNTP network clock Support RTC Support syslog Support TACACS+
Device management	<ul style="list-style-type: none"> Support SNMP Support WEB network management (support HTTPS) Support DHCP-client Support user password protection Support command line configuration
Network redundancy	<ul style="list-style-type: none"> MSTP/RSTP/STP pvtring ERPS
warning/monitoring system	<ul style="list-style-type: none"> Fault alarm via relay output Record and browse event Syslog reporting through system logging Support SNMP to issue event warning notifications through traps
Console control port	RJ45 port, RS-232 control line, 115200bps-8-N-1
Mechanical properties	
Dimensions (W x D x H)	76x146x126mm
Protection level	IP40
Installation method	Default rail, optional wall mounting
Weight (g)	≤3KG
environment	
storage temperature	-40~85 °C
Operating temperature	-40~75 °C
Working humidity	5%~95% no condensation
Certification	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	<ul style="list-style-type: none"> EN61000-4-2 (ESD) Contact discharge 6 kV, air discharge 8 Kv EN61000-4-3 (RS) 10V/m, 80MHz~1GHz EN61000-4-4 (EFT) Signal terminal 1 kV, power input terminal 2 kV EN61000-4-5 (Surge) Power input: 2kV (line/ground), 1kV (line/line) EN61000-4-6 (CS) 10V, 150kHz~80MHz
impact	IEC60068-2-27
fall	IEC60068-2-32
shock	IEC60068-2-6
Security Level	EN 62368-1 (LVD)
Warranty	5 years

Specification	
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