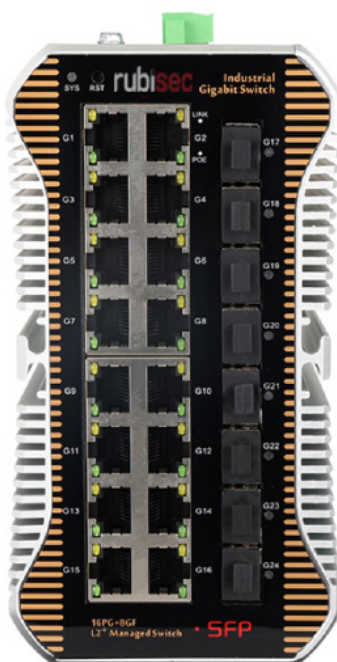




■ Overview

The Rubisec RS-IS-300-16GP-8S are 1G uplink managed Ethernet fiber switches independently developed by Rubisec.

The RS-IS-300-16GP-8S is a Gigabit managed industrial PoE switch independently developed by Rubisec. It has 16*10/100/1000Base-T adaptive RJ45 ports and 8*100/1000Base-X SFP fiber ports. Port 1-16 can support IEEE802.3af/at PoE standard and the single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize the power-receiving equipment that meets the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP cameras, VoIP phones, and industrial sensors through a network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy, and green energy, industrial scenes such as construction setting up a cost-effective and stable communication network.

The RS-IS-300-16GP-8S has L2+ network management function to support IPV4/ IPV6 management, static route forwarding, complete security protection mechanism, complete ACL/QoS policy, and rich VLAN functions for easy management and maintenance. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS (<20ms) to improve link backup and network reliability. Communication can be quickly restored when a one-way network fails Ensure uninterrupted communication for important applications. According to application needs, PoE power supply management can be performed through Web, CLI, SNMP, Telnet, etc., and application configurations such as port management, routing address management, port flow control, VLAN division, IGMP, and security policies can be performed.

Models		RS-IS-300-16GP-8F
Interface Characteristics		
Console Port		1*Console RS232 port
Fixed Port		Power-off alarm switch (FAULT) 1*RS232 console port(115200,N,8,1) 8*100/1000Base-X uplink SFP ports (Data) 16*10/100/1000Base-T PoE ports (Data/ Power) 2 set V+, V- redundant DC power ports (6P industrial Phoenix terminal)
Ethernet Port		Port 1-16 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission		10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)
Optical Fiber Port		1/10G SFP+ optical fiber port, default no include optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Fiber Port Expansion		Turbo overclocking 2.5G optical module expansion and ring network
Optical Cable / Distance		Multi-mode: 850nm / 0~500M(1.25G), 0~300M(10G), Single-mode: 1310nm / 0~ 40KM, 1550nm / 0~120KM.
Chipset Parameters		
Network Management Type		L2+
Network Protocol		IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode		Store and Forward (Full Wire Speed)
Switching Capacity		52Gbps (non-blocking)
Twisted Pair		35.71Mpps
MAC		8K
Jumbo Frame		9.6K
LED Indicators		Power: PWR (Green), System: SYS (Green), Network: Link (Yellow), Fiber Port: L/A (Green), PoE: PoE (Green)
Reset Switch		Yes, press and hold the switch for 10 seconds and release it to restore the factory settings

POE & Power Supply	
PoE Port	1 to 16, IEEE 802.3 af/at
PoE Management	PoE power supply total power limit configuration Power delay start, Port PoE output priority configuration PoE work and time scheduling, Port PoE working status display Port PoE output power distribution, PoE on/off, af/at power distribution
Power Supply Pin	1/2(+) 3/6(-)
Max Power Per Port	30W, IEEE 802.3 af/at
Total PWR / Input Voltage	DC44-57V, 6P industrial Phoenix terminal, support anti-reverse protection
Power Consumption	No, optional 48V/240W or 48V/480W industrial power supply

Physical Parameters	
Operation TEMP / Humidity	-40~+80°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40°C~+85°C, 5%~95% RH Non condensing
Ingress Protection ion	IP40
Lighting Protection	6KV 8/20us
Dimension (L*W*H)	166*150*90mm
Net / Gross Weight	2.1kg/ 2.3kg
Installation	Desktop, 35mm DIN Rail
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, CE EN 55022 Class A, CE EN55035, CE EN 61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8, RoHS,
Lightning Protection	IEC61000-4-3 (RS):10V/m (80~1000MHz) FCC Part 15/CISPR22 (EN55022): Class A IEC61000-6-2 (Common Industrial Standard) IEC61000-4-9 (Pulsed magnet field): 1000A/m IEC61000-4-10 (Damped oscillation): 30A/m 1MHz IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV Protection level: IP40, Lightning protection: 6KV 8/20us IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32 (Free Fall)

Software Features	
Interface	Port green Ethernet Energy-saving setting Broadcast storm control based on port speed IEEE802.3X (Full-duplex), Port temperature protection setting The speed limit of the message flow in the access port, mini particle size is 64Kbps..
Layer 3 Features	ARP protocol max 1024 entries Static routing/ default routing max 128 entries L2+ network management, IPV4/IPV6 management L3 routing and forwarding, support communication between different network segments and different VLAN
VLAN	Port configuration of Access, Trunk, Hybrid VLAN based on MAC, Voice VLAN, QinQ configuration 4K VLAN based on port, IEEE802.1q, VLAN based on the protocol
Port Aggregation	8LACP, Static aggregation, Max 12 aggregation groups and 8 ports per group.
Max Agg. Group	12
Spanning Tree	STP BPDU Guard, BPDU filtering and BPDU forwarding, STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Industrial Ring Network Protocol	G.8032 (ERPS), 255 Ring at most, Max 1024 devices per ring. Recovery time less than 20ms
Multicast	MLD Snooping , Multicast VLAN, IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	QueFlow-based redirection, Flow-based rate limiting Flow-based packet filtering, Priority Mark/Remark 8*Output queues of each port, 802.1p/ DSCP priority mapping Queue Scheduling Algorithm (SP, WRR, SP+WRR), Diff-Serv QoS
ACL	Port-based Issuing ACL, ACL based on port and VLAN L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
Security	SSH 2.0, SSL, Port isolation, ARP message speed limit User hierarchical management and password protection AAA & RADIUS & TACACS+ certification, MAC learning limit IEEE802.1X & MAC address authentication, ARP inspection IP-MAC-VLAN-Port binding, Anti-DoS attack, IP source protection Broadcast storm control, Backup for host datum, Mac black holes
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP relay
Management	CPU real-time utilization status view, SNMP V1/V2C/V3 Rubisec-NMS platform cluster management (LLDP+SNMP) Console/ AUX Modem/ Telnet/ SSH2.0, CLI configuration Cable length status detection, NTP clock, One-key recovery, LLDP FTP, TFTP, Xmodem, SFTP file upload and download management Ping detection, System work log, Web network management (HTTPS)
System	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Cat5 and above Ethernet cable TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, Mac OS X) installed on each computer in the network Cat5 and above Ethernet cable

Packing List	Content	Qty	Unit
Packing List	16-port 10G uplink managed industrial PoE switch	1	SET
	RJ45-DB9 Line	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

Model	Description
Order Information	
RS-IS-300-16GP-8S	L2+ managed industrial PoE fiber switch with 16*10/100/1000M RJ45 ports and 8*100/1000M uplink SFP fiber ports. Port 1-16 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input and DIN rail mounting.

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