



■ Overview

The Rubisec RS-IS-400-16GPTX are 10G uplink managed Ethernet fiber switches independently developed by Rubisec.

The Rubisec RS-IS-400-16GPTX is a 10G uplink managed industrial PoE switch independently developed by Rubisec. It has 12*10/100/1000Base-T adaptive RJ45 ports and 4*1/10G uplink SFP+ fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard and the single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize power-receiving devices that meet the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP camera, VoIP, and industrial sensors through the network cable. It also meets the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and industrial scenes such as shipping, metallurgy, and green energy construction forming a cost-effective, stable, and reliable communication network.

The Rubisec RS-IS-400-16GPTX has L3 network management functions, supports IPV4/ IPV6 management, dynamic routing full-line speed forwarding, complete security protection mechanism, perfect ACL/QoS strategy, and rich VLAN functions for easy management and maintenance. It has leading ring network technology, supports various industrial-grade redundant ring network protocols, and all ports can form rings. It supports chain, star, double star, ring, tangent ring, intersecting ring, coupled ring, and the ring network recovery time within 20ms. It has high reliability, security, and manageability to ensure reliable transmission of key data.

Models		RS-IS-400-16GPTX
Interface Characteristics		
Console Port		1*Console RS232 port
Fixed Port	Power off alarm switch port (FAULT) 4*1/10G uplink SFP+ fiber ports (Data) 3*10/100/1000Base-T uplink RJ45 ports (Data) 1*10/100/1000Base-T OOB MGMT Port 8*10/100/1000Base-T PoE ports (Data/ Power) 2 set V+, V- redundant DC power ports (6P industrial Phoenix terminal)	
Ethernet Port		Port 1-12 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		L3
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3z 1000Base-X, IEEE 802.3ab 1000Base-T, IEEE 802.3ae 10GBase-SR/LR, IEEE 802.3x	
Forwarding Mode		Store and Forward (Full Wire Speed)
Switching Capacity	176Gbps (Non-blocking)	
Twisted Pair		77Mpps
MAC	32K	
Jumbo Frame		10K
LED Indicators	Power: PWR (Yellow), System: SYS(Yellow), Network: Link (Yellow), Fiber port: L/A (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 8, IEEE 802.3 af/at
PoE Management	PoE power supply total power limit configuration Power delay start, PoE work, and time scheduling Port PoE working status display, Port PoE output priority configuration 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	DC48-57V, 6P industrial Phoenix terminal, support anti-reverse protection.
Power Consumption	Standby<15W, Full load af<120W, at<240W

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*75mm
Net / Gross Weight	1.8kg/ 2.1kg
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	No connection port automatic sleep Port green Ethernet Energy-saving setting Broadcast storm control based on port speed SFP+ optical port DDMI real-time digital diagnosis Port temperature protection setting, IEEE 802.3x flow control (Full-duplex) , The speed limit of the message flow in the access port, mini particle size is 64Kbps.
Layer 3 Features	Pingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6 IPV4/IPV6 VLANIF interface supports up to 128 IPV4 Equal Cost Routing, ARP protocol max 1000 entries IPV4/IPV6 static route/ default route supports up to 128 entries IPV4/IPV6 VRRP max group is 255, NG protocol max 1000 entries L3 network management function, IPV4/IPV6 dual-stack management IPV4 dynamic routing, RIPv1/v2, OSPFv2, BGP4+, 4000 routing entries IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000 routing entries L3 routing and forwarding, support communication between different network segments and different VLAN
VLAN	Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid
Port Aggregation	802.3ad LACP dynamic aggregation, Static aggregation, 8 ports per group.
Max Agg. Group	8
Spanning Tree	STP BPDU Guard, BPDU filtering and BPDU forwarding, STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Industrial Ring Network Protocol	Support ERPS ring network, ring network self-healing time is less than 20ms, ITU-T G.8032
Multicast	MLD Snooping, IGMP Snooping, Multicast VLAN, IGMPv3 User quick log out, MVR (Multicast LAN registration) IGMP Snooping v1/v2/v3 and 1024 multicast groups at most
Port Mirroring	Bidirectional traffic mirroring for basic ports Supports 1-to-multiple mirroring, supports up to 4 port sessions
QoS	Queue Scheduling Algorithm (SP, WRR, SP+WRR) Flow-based Rate Limiting, Stream based redirection Traffic shaping, Flow-based Packet Filtering, 8*Output queues of each port 802.1p/DSCP priority mapping, Diff-Serv QoS, Priority Mark/Remark
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 Broadcast storm control, Backup for host datum, Mac black holes IP-MAC-VLAN-Port binding, Anti-DoS attack, IP source protection BPDU guard, STP root guard
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP relay
Ring Network Protocol	G.8032 (ERPS), Recovery time less than 20ms. 250 Ring at most, Max 250 devices per ring, mesh/semi network supports.
Management	Web network management (https) OOB dedicated management ethernet port Link Layer Discovery Protocol(LLDP) Viewing CPU Instant Utilization Status NTP clock, One click restore, SNMP V1/V2/V3 Cable status check, Ping detection, System work log Rubisec NMS platform cluster management (LLDP+SNMP) Console/ AUX Modem/ Telnet/ CLI command line configuration FTP, TFTP, Xmodem, SFTP file upload and download management
System	Category 5 Ethernet network cable Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network

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-400-16GPTX	L3 Managed PoE+ fiber switch with 4*1/10G SFP+ fiber ports and 12*10/100/1000M RJ45 ports. Port 1-8 can support IEEE802.3af/at PoE standard.

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