



I Overview

The RS-IS-300-28GPX is a full Gigabit L2+ managed PoE/Fiber switch family independently developed by Rubisec.

It has 24 *10/100/1000Base-T adaptive RJ45 ports and 2 or 4 or 28 *100/1000Base-X SFP slot ports; Each port can support wire-speed forwarding. PoE Ports can support IEEE 802.3 af/at PoE standard, and single-port PoE power up to 30W.

As a PoE power supply device, it can automatically detect and identify powered devices that meet standards and power them through network cables. It can power PoE terminal equipment such as wireless AP, IP camera, Internet telephone, and building visual access control intercoms through network cables to meet network environments that require high-density PoE power supply.

The RS-ES-300-28GPX Industrial Layer 2+ Gigabit Managed Switch is designed specifically to to low power consumption, with fan, galvanized steel casing, and excellent heat dissipation ensure the stable operation. These rugged yet easy to deploy switches have superior environmental specifications compared to those of commercial network switches. With its hardened design combined with high availability network features, these switches form vital parts of any network infrastructure facilitating the increasing demand for smart cities city-wide surveillance and wireless connectivity. It is suitable for hotels, campuses, parks, supermarkets, scenic spots, factories, dormitories, and SMB small and medium-sized enterprises to establish cost-effective networks.

Models	RS-IS-300-28GPX
Interface Characteristics	
Console Port	1*Console RS232 port
Fixed Port	1*Console RS232 port (115200, N, 8,1) 4*1/10G uplink SFP+ fiber ports (Data) 24*10/100/1000Base-T PoE ports (Data/ Power) 2*AC100-240V input ports Power failure alarm switch port (FAULT) 2*DC48-57V input ports (support reverse polarity protection)
Ethernet Port	10/100/1000Base-T(X) ports supports 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)
SFP Port	Gigabit SFP optical fiber interface, default no include optical modules (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable / Distance	Multi-mode: 850nm /0-550m 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	128 Gbps (Non-blocking)
Twisted Pair	95.23 Mpps
CPU	800MHz
DRAM	1G
FLASH	128M
MAC	16K
Buffer Memory	12M
Jumbo Frame	12K
LED Indicators	Power: PWR(Yellow), System: SYS(Yellow) Network: Link/Act(Yellow), POE: PoE (Green), 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 24
PoE Management	PoE working status display, Port 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	400W/ (AC100-240V)
Power Consumption	Standby<20W, full load<380W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 5.0A

Physical Parameters	
Operation TEMP / Humidity	-40°C~+75°C, 5%~90% RH non condensing
Storage TEMP / Humidity	-40°C~+85°C, 5%~95% RH non condensing
Lighting Protection	6KV 8/20us
Ingress Protection	IP30
Dimension (L*W*H)	440*378*44.5mm
Net / Gross Weight	5.4kg/ 6.2kg
Installation	Desktop, 1U/19" cabinet
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS

Software Features

Interface	IEEE802.3x flow control (Full duplex) Broadcast storm suppression based on port rate Port real-time traffic management (Flow Interval) Limit the rate of packet traffic on incoming and outgoing ports, with min. granularity is 16Kbps and max is 1Gbps
Layer 3 Features	IPv4 static route/default route, max entries 128 L2+ network management function, ARP protocol, max 1024 entries
VLAN	Port-based VLAN (4K), VLAN based on the protocol IEEE802.1q, Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP dynamic aggregation, static aggregation, 8 ports per group
Max. Agg. Group	Max 14 aggregation groups, 8 ports per group
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Multicast	Multicast VLAN, User quick exit mechanism IGMP Snooping v1/v2, Max 1024 multicast groups
Port Mirroring	Bidirectional data mirroring based on port
QoS	Queue scheduling algorithm (SP, WRR, SP+WRR) Flow-based rate limiting, Flow-based packet filtering Flow-based based redirection, 8*Output queues of each port 802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark
ACL	Port-based and VLAN-delivered ACL The L2-L4 packet filtering function can match the first 80 bytes of the packet and provide information based on source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, and VLAN. Wait to define the ACL.
Security	IP-MAC-VLAN-Port binding ARP intrusion detection function ARP message rate limiting function Port-based IEEE802.1X certification Port broadcast message suppression SSL ensures data transmission security Port isolation, IP source address protection Host data backup mechanism, Anti-DoS attack Limit on the number of MAC addresses learned AAA&RADIUS certification, MAC address black hole User hierarchical management and password protection SSH 2.0 provides a secure encrypted channel for user login
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	Web network management (https) View CPU real-time utilization status Link Layer Discovery Protocol (LLDP) NTP clock, SNMP V1/V2/V3, System work log One click recovery, Ping detection, Cable status check Rubisec NMS platform cluster management (LLDP+SNMP) Console/ AUX Modem/ Telnet/ SSH2.0 and CLI configuration FTP, TFTP, Xmodem, SFTP file upload and download management
System	Category 5 and above Ethernet cables Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Microsoft Internet Explorer 10 or higher TCP/IP, network adapters, and network operating systems (such as Microsoft Windows, Linux, or Mac OS X) are installed on each computer in the network over Category 5 and above Ethernet cables.

Packing List	Content	Qty	Unit
Packing List	Full gigabit managed L2+ switch	1	SET
	RJ45-DB9 Line	1	PC
	AC Power Cable	1	PC
	Mounting Kits (Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

Model	Description
Order Information	
RS-IS-300-28GPX	L3 managed industrial PoE switch with 24*10/100/1000M RJ45 ports and 4*1/10G uplink SFP+ fiber ports. Port 1-24 can support IEEE 802.3 af/at PoE standard. It built-in redundant dual power supply and standard 1U/19" cabinet installation.

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