



■ Overview

The RS-ES-310 series is a 10G uplink managed POE/POE+ Ethernet fiber switch independently developed by Rubisec.

RS-ES-310 series POE switch is a new generation of intelligent switch for carrier IP MAN, government and enterprise network, cyber cafe, and diskless working environment. It has a high density of 48 10/100/1000M RJ45 POE ports + 6 1/10G (SFP +) fiber optic interfaces, using 1U / 19-inch mounting shell design. The 1-48 ports support IEEE 802.3af/at standard PoE power supply, single-port PoE power up to 30 W. As a PoE power supply device, it can automatically detect and identify the powered devices that comply with the standard and supply power to them through the network cable. Through the network cable for wireless AP, network cameras, network phones, visual access control intercom and other POE terminal equipment power supply, to meet the demand for high-density PoE power supply network environment.

RS-ES-310 is based on a new generation of high-performance hardware and software platforms, supporting powerful ACL, flexible QinQ, 1:1 and N:1 VLAN switching, Ethernet OAM, operational-grade QoS, industrial-grade 10 Gigabit Ethernet ring and other functions, and supporting Layer 3 routing protocols. This series of products can meet the application requirements of various complex scenarios.

Models	RS-ES-310-28GPX	RS-ES-310-54GPX	RS-ES-310-54GHPX
Interface Characteristics			
Console Port		1*Console RS232 port	
Fixed Port	24* Gigabit 10/100/1000 ports 4* 10 Gigabit optical ports	48* Gigabit POE/ POE+ 10/100/1000 ports 6* 10 Gigabit optical ports	48* Gigabit POE/ POE+ 10/100/1000 ports 6* 10 Gigabit optical ports
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)	
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 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		IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3ae 10GBase-SR/LR, IEEE802.3x	
Forwarding Mode		Store and Forward (Full Wire Speed)	
Switching Capacity		128Gbps	216Gbps
Forwarding Rate@64byte		95Mpps (Non-blocking)	161Mpps
MAC		16K	32K
Jumbo Frame		9K	9K
LED Indicators		Power: PWR (Yellow), System: SYS(Yellow), Network: Link (Yellow), Fiber port: L/A (Green)	

POE & Power Supply			
Total PWR / Input Voltage	AC:100V-240V, 50Hz±10%		
Full Load Power Consumption	400W	400W	800W
Net POE Power	370W	370W	740W
Poe Ports	1-24 port	1-48 port	1-48 port
Power Supply	Built-in power supply, AC 100~240V 50~60Hz 1.0A		

Physical Parameters			
Operation TEMP / Humidity	-20°C~+55°C, 5%~90% RH Non condensing		
Storage TEMP / Humidity	-40°C~+80°C, 5%~95% RH Non condensing		
Ingress Protection	IP30		
Lighting Protection	4KV 8/20us		
Dimension (L*W*H)	440*290*44.5mm	440*280*44mm	440*280*44mm
Net / Gross Weight	<3.5kg / <4.3kg	<5.0kg / <5.5kg	<5.0kg / <5.5kg
Installation	Desktop, 19 inch 1U cabinet installation		
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS		

Software Features	
Interface	IEEE802.3x flow control (full duplex) Port exception protection mechanism Port real-time flow management (Flow Interval) Broadcast storm suppression based on port rate Optical port SFP module DDML real-time digital diagnosis
Layer 3 Features	Supporting ipv4/ipv6 dual stack protocols, 512 route table support for static routing Support RIP, OSPF dynamic routing support for VRRP virtual routing
VLAN	supports 4K VLAN table entries, 64 vlan interface GVRP support, Supporting the QinQ function, Private VLAN support, support for voice vlan,
Port Aggregation	802.3ad LACP dynamic aggregation, Static aggregation;
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) BPDU guard, root guard and loopback guard
Industrial Ring Network Protocol	Support ERPS ring network, ring network self-healing time is less than 20ms, ITU-T G.8032; Max. 250 Rings; Max. 250 devices per ring.

Software Features	
DHCP	DHCP server/relay/client · DHCP snooping/option82
Layer 3 Features	· Static route, RIP, OSPF · IPv4/v6 dual stack, VRRP
IPv6	ICMPv6, DHCPv6, ACLv6 and Ipv6 Telnet IPv6 neighbor discovery, Path MTU discovery MLD V1/2, MLD snooping IPv6 Static Routing, RIPng, OSPFv3 Manual tunnel, ISATAP tunnel, 6 to 4 tunnel
Multicast	IGMP v1/v2/v3, IGMP Snooping, IGMP Fast Leave, MVR, IGMP filter
QoS	CAR, HQoS, MAC/IP/TCP/UDP/VLAN/COS/DSCP/TOS based QoS, 802.1P/DSCP priority re-labeling, SP, WRR, and "SP+WRR", Tail-Drop, WRED, flow monitoring and traffic shaping
Security	Port isolation, Port security, and IP+MAC+port binding, MAC sticky DHCP Snooping and option 82, DAI & IP source guard, PPPoE+, IEEE 802.1x, Radius and Tacacs+ L2/L3/L4 ACL flow identification and filtration Anti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc. Broadcast/multicast/unknown, unicast storm-control MD5, SHA-256, RSA-1024, AES256, etc.
Management	Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON TFTP, FTP, SFTP, NTP, ZTP SPAN, RSPAN, Syslog, UDLD
System	Category 5 Ethernet network cable Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer 10 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	24/48-port 10G uplink managed L3 Ethernet fiber 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-ES-310-28GPX	24-Port Gigabit Power, 4-Port 10GbE Optical, Ethernet POE Switch (1 CLI control port, 24 Gigabit POE ports, 4 10GbE/Gigabit SFP+ optical ports; standard power supply AC220V, POE power 370W, fan cooling, 1U height, standard 19-inch rack-mountable)
RS-ES-310-54GPX	48-Port Gigabit Power, 6-Port 10GbE Optical, Ethernet POE Switch (1 CLI control port, 48 Gigabit POE ports, 6 10GbE/Gigabit SFP+ optical ports; standard power supply AC220V, POE power 370W, fan cooling, 1U height, standard 19-inch rack-mountable)
RS-ES-310-54GHPX	48-Port Gigabit Power, 6-Port 10GbE Optical, Ethernet POE Switch (1 CLI control port, 48 Gigabit POE ports, 6 10GbE/Gigabit SFP+ optical ports; standard power supply AC220V, POE power 740W, fan cooling, 1U height, standard 19-inch rack mounting)

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