▌ Overview

The RS-ES-320 series is a 10G uplink multi-gig managed POE/POE+ Ethernet fiber switch independently developed by Rubisec.

RS-ES-320 Series multi-rate POE Ethernet switch with 24 * 2.5G RJ45 ports, 6 * 10-gigabit SFP optical ports connected. Which 1-8 port support bt POE output single port maximum output 90W, backward compatible with IEEE 802.3af/at PoE power supply standard, 9-24 port support IEEE 802.3af/at standard PoE power supply, single port PoE power up to 30W. RS-ES-320-30GTP is a new generation of multi-rate intelligent switch for ISP operators, government and enterprise networks, campus networks, and high-speed WIFI6+ wireless coverage scenarios. RS-ES-320-30GTP is based on a new generation of high-performance hardware and software platform with independent intellectual property rights, supporting virtual stacking, rich Layer 3 routing protocols, industrial-grade ten Gigabit Ethernet ring network and other functions. So that this series of products can meet the application requirements of various complex scenarios.

Models	RS-ES-320-28GTP	
Interface Characteristics		
Console Port	1*Console RS232 port	
Fixed Port	24* Gigabit 100M/1G/2.5G BASE-T ports 4* 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	240Gbps	
Forwarding Rate@64byte	180Mpps (Non-blocking)	
MAC	32K	
Buffer Memory	12M	
Jumbo Frame	9K	
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 Suply		
Total PWR / Input Voltage	AC:100V-240V, 50Hz±10%	
full load power consumption	800W	
Net POE Power	740W	
	1-24 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*280*44
Net / Gross Weight	<3.5kg / <4.3kg
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 (Full-duplex) Port temperature protection setting 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 The speed limit of the message flow in the access port, minimum particle size is 64Kbps.
Layer 3 Features	Supporting ipv4/ipv6 dual stack protocols support for static routing Support RIP, OSPF dynamic routing support for VRRP virtual routing
VLAN	supports 4K VLAN table entries, 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)
Industrial Ring Network ProtocoWl	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.
Multicast	Support for IGMP v1/v2/v3 support for IGMP Snooping support for IGMP Fast Leave Support multicast group policy and multicast group number limitation support multicast traffic replication across VLANs

Port Mirroring	Bidirectional traffic mirroring for basic ports
QoS	supporting traffic classification based on each field of the L2/L3/L4 protocol header Supporting CAR traffic limits Support for 802.1P/DSCP priority re-marking Supporting SP, WRR, SP+WRR and other queue scheduling methods Supporting congestion avoidance mechanisms such as Tail-Drop and WRED Supporting traffic regulation and traffic shaping
ACL	Support for Layer 2, Layer 3, and Layer 4 ACLs support for IPv4, IPv6 ACLs VLAN ACL support
Security	Support L2/L3/L4 based ACL flow identification and filtering security mechanism Supports protection against DDoS attacks, SYN Flood attacks on TCP, UDP Flood attacks, and so on Supports the suppression of multicast, broadcast, and unknown unicast messages support for port isolation Support port security, IP+MAC+port binding Support DHCP sooping,DHCP option82 supporting IEEE 802.1x authentication support Radius authentication Supporting command-line hierarchical protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP relay
Management	Support Console, Telnet, SSH 2.0 Supports Zero Touch Provisioning (ZTP). Supporting browser-based WEB-based management Support SNMP v1/v2/v3 Supports file upload and download management in TFTP mode Support for RMON event history
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	24-port 2.5G Multigig 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-320-28GTP	24-Port 2.5G PoE+ 6-Port 10G SFP+ L3 Managed Switch (built-in single AC-220V power supply; with cooling fan, 1U, standard 19-inch rack-mounted installation)

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