

Ethernet switch ES528X-PWR Datasheet

Version:1.0

Products Description

ES528X-PWR is a Layer-3 managed PoE switch. To meet the demand of high-performance access, the switch provides 24xGigabit PoE+ Ports with total 370W Power Budget and 4x10G SFP+ Slots. With an innovative hardware structure and software platform, it features a powerful processing capacity and complete security protection mechanism, making management and maintenance easy and simple, fully meeting the demands of high-density user access and high-performance aggregation, ideal for the aggregation layer or access layer of such medium to large networks as enterprises and campuses.



ES528X-PWR Front View

FEATURES

Features	ES528X
Interface	24x10/100/1000Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX), 6x10G SFP+ Slots
Packet Forwarding Rate	108Mpps/126Mpps
Chips	RTL9311R*1+RTL8218E*3+RTL8238B*3
Flash	256MB SPI NAND Flash
DDR	1GB DDR4
RS-232 Serial port	Support

PoE+ Ports (RJ45)	Standard: 802.3at/af compliant PoE+ Ports: 24 Ports, up to 30 W per port Power Budget: 370 W*
Max Power Consumption	430W(Maximum power consumption of the entire machine)
USB port	No
Power Supply	100~240VAC, 50/60Hz
Heat dissipation mode	Fan cooling
Fan Quantity	3
Dimensions (W x D x H)	440*260*44mm
Environment	Operating Temperature: 0℃~40℃ Storage Temperature: -40℃~70℃ Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing
Certification	Certification according to customer requirements

Software Features

Features	Description
Port Aggregation	Support GE port aggregation
	Support 10GE port aggregation
	Support Static aggregation
	Support Dynamic aggregation
	Support Cross-device aggregation
Flow control	Support 802.3x Flow control and half-duplex back pressure flow control
MAC Address table	Support 32k MAC address
	Support Black hole MAC address
	Support Set the maximum number of port MAC address learning

VLAN	Support Port VLAN
	Support QinQ VLAN
	Support Voice VLAN
	Support Protocol VLAN
	Support MAC VLAN
ARP	Support Free ARP
	Support ARP Detection
	Support ARP speed limit
ND	Support ND
	Support ND Snooping
VLAN Virtual interface	Support
DHCP	Support DHCP Client
	Support DHCP Snooping
	Support DHCP Relay
	Support DHCP Server
	Support DHCP Option82
DNS	Support Static domain name resolution
	Support Dynamic domain name resolution client
	Support IPv4 and IPv6
IP route	Support Static routing
	Support RIPv1/v2, RIPv6
	Support OSPFv1/v2, OSPFv3
	Support BGP4, BGP4+ for IPv6
	Support IS-IS, IS-IS v6
	Support VRRP/VRRPv3
	Support Equivalent route, Policy Routing
	Support IGMP Snooping v1/v2/v3, MLD Snooping v1/v2
	Support PIM Snooping
	Support MLD Proxy

Multicast	Support Multicast VLAN
	Support IGMP v1/v2/v3, MLD v1/v2
	Support PIM-DM, PIM-SM, PIM-SSM
	Support MBGP, MBGP for IPv6
Broadcast/multicast/unicast storm suppression	Support Storm suppression based on port rate percentage
	Support Storm suppression based on PPS
	Support Storm suppression based on BPS
L2 Ring communication protocols	Support STP/RSTP/MSTP
	Support STP Root Protection
	Support BPDU Protection
	Support G.8032 ERPS, changeover time≤50ms,
	Support Smart Link
	Support RRPP
QoS/ACL	Support 802.1p/DSCP
	Support Packet filtering function
	Support SP/WRR/SP+WRR Queue scheduling
	Support Port-based flow control
	Support Stream-based redirection
	Support QoS/ACL of time period
mirroring	Support port mirroring
	Support stream image
	Support remote mirroring
	Support User hierarchical management and password protection
	Support AAA authentication
	Support Radius authentication
	Support HWTACACS
	Support SSH2.0

Security features	Support Port isolation
	Support 802.1X
	Support Port security
	Support MAC Address authentication
	Support IP Source Guard
	Support HTTPs
	Support PKI (Public Key Infrastructure)
	Support EAD
802.1X	Support 802.1X authentication
	Support Port-based authentication and MAC-based authentication
	Support Guest VLAN
	Support TRUNK Port authentication
	Support Dynamically distribute QoS/ACL/VLAN based on 802.1x
Load upgrade	Support XModem Protocol implementation loading and upgrading
	Support FTP (File Transfer Protocol) Load upgrade
	Support TFTP (Trivial File Transfer Protocol) Load upgrade
Management	Support Command line interface (CLI) configuration
	Support Telnet Remote configuration
	Support Configure through the Console interface
	Support SNMP (Simple Network Management Protocol)
	Support RMON (Remote Monitoring) Alarm, event and history
	Support iMC Network management system
	Support WEB Network management

	Support system log
	Support Graded alarm
	Support IRF
	Support NTP
	Support Power supply, fan and temperature alarm
Maintain	Support Debug information output
	Support Ping、Tracert
	Support Telnet Remote maintenance
	Support NQA
	Support 802.1ag
	Support 802.3ah
	Support DLDP
	Support Virtual Cable Test