

SWM-2828-P-A

LAYER 2 ETHERNET ACCESS SWITCHES



Overview

SWM-28 series is a new-generation smart access switch designed for carrier's IP MAN and enterprise networks. Based on the new-generation high-performance hardware and software platform, it supports functions such as ACL, flexible QinQ, 1:1 or N:1 Vlan Switching, Ethernet OAM, Carrier level QoS and industry-level 10G Ethernet Ring, ensuring this switch series meets application requirements in all kinds of complicated sites.

FULL GIGA

The SWM-28 series supports industrial Ethernet ring network protection protocol. The protection switching time is less than 50ms. The solution has been applied in power industry, rail transportation industry and military projects for decades. It can achieve zero packet loss. It also supports simple and effective redundancy protection mechanism such as STP/RSTP/MSTP protocol and dual uplink standby link protection and LACP link aggregation. These functions meet the requirement of carrier grade high reliability.

L2

The solution has perfect Ethernet OAM, which can real time monitor the network operating state and rapidly detect and locate the malfunction. It supports strong ACL function, L2~L7 data access and control based on the physical port, VLAN IDs, source MAC/IP addresses and protocol port, which provides flexible ways of policy control.

STP, RSTP, MSTP

The SWM-28 series supports ISSU (In-Service Software Upgrade), guaranteeing the user data non-stop forwarding when the system is upgrading, and various L2 multicast function as well, including IGMP-Snooping, user fast-leave mechanism and cross VLAN multicast replication function.

The SWM-28 series supports complex traffic classification based on VLAN, source MAC/IP addresses, destination MAC/IP addresses, IP protocols, or priorities. It also supports priority remark. These functions provide an effective way for users to optimize their businesses. It provides flexible bandwidth control policies as well and support a port base or flow-based Committed Access Rate (CAR) and guarantees Layer 3 line-speed forwarding. Every port supports 8 priority queues grooming algorithms such as SP, WRR or SP+WRR.

10G

The SWM-28 series comprehensively supports IPv6 Neighbor Discovery, ICMPv6、 Path MTU Discovery, IPv6 based Ping, Traceroute, Telnet, SSH, ACL, meeting the need of IPv6 network equipment management and service control.

The SWM-28 series adopts advanced hardware architecture design, realizing the hierarchical scheduling and protection of the packet. It provides multiple security measures to defend against DOS or TCP attacks; and supports command line authority control based on user levels.

The SWM-2828-P-A complies with IEEE 802.1x, Radius, BDTacacs+ and supports the suppression of broadcast, multicast and unknown unicast packet, ensuring the equipment can operate normally in harsh network conditions. It also has the perfect loop detection mechanism as well as port isolation in a same VLAN and DHCP-Snooping、 IP+MAC+ port binding.

Technical Characteristics

Switching capacity	128 Gbps
Forwarding	96 Mpps
Mac Table	16 K
Ports	<ul style="list-style-type: none"> • 24 x Gigabit POE/POE+ • 4 x Gigabit / 10G SFP+
Dimensions	440x180x44
Power	<ul style="list-style-type: none"> • AC : 100-240V, 50Hz±10% • DC : -36V ~ -72V
Environment	<ul style="list-style-type: none"> • Operating temperature/humidity : 0°C-55°C; 5%-95% non-condensing • Storage temperature/humidity : -20°C-70°C, 5%-95% non-condensing
Power Consumption	< 45W
POE Power	400W/800W
Mac switching	Static configuration and dynamically learning of MAC address, check and delete MAC address, Configuring of MAC address aging time, Limit on MAC address learning number, MAC address filtering function, balck hole Mac items.
VLAN	4K VLAN entries, GVRP, 1:1 and N:1 VLAN Mapping, QinQ and selective QinQ, Private VLAN
STP	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP), BPDU protection, root protection and ring protection.
Multicast	IGMP v1/v2/v3, IGMP Snooping, IGMP Fast Leave, Multicast group policy and multicast number limit, Multicast traffic cross VLAN duplication.
IPV6	ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet, IPv6 Neighbor Discovery, MLD v1/v2, MLD Snooping.
QoS	Traffic classification of each field of L2/L3/L4 protocol headers, CAR traffic control, 802.1P/DSCP priority remark, Multiple queuing algorithms such as SP, WRR or SP+WRR, Tail-Drop, WRED, Traffic supervision and Traffic shaping.
Security Features	Identification and filtering of L2/L3/L4 based ACL, Defend against DOS or TCP attacks, Suppression of broadcast, multicast and unknown unicast packet, port isolation, Port security, IP+MAC+port binding, DHCP Snooping, DHCP Option 82, IEEE802.1x certification, Radius and Tacacs+, command line authority control based on user levels
Reliability	Static/LACP link aggregation, EAPS and ERPS, ISSU
Maintenance and Management	Console, Telnet, SSH 2.0, WEB based management style, SNMP v1/v2/v3, upload and download of TFTP files, RMON.
MTBF	200 000 hours (MIL-HBK-217 standard at 25°C)



CXR Anderson Jacobson
 T +33 (0) 237 62 87 90
www.cxr-networks.com

Rue de l'Ornette 28410 Abondant France
contact@cxr.com
www.cxr-wireless.com

Ordering Information

Reference	Description
SWM-2828-R-A	Ethernet switch with 20 TX ports, 4 combo ports and 4 10GE ports (1 Console port, 20 GE TX ports, 4 combo 1000M/100M auto-adaptation SFP ports, 4 10GE/GE auto-adaptation SFP+ ports; standard power supply AC220V, the cooling fan, 1U, standard 19-inch rack-mounted installation)
SWM-2828-R-2D	Ethernet switch with 20 TX ports, 4 combo ports and 4 10GE ports (1 Console port, 20 GE TX ports, 4 combo 1000M/100M auto-adaptation SFP ports, 4 10GE/GE auto-adaptation SFP+ ports; standard power supply 2xDC, the cooling fan, 1U, standard 19-inch rack-mounted installation)
SWM-2828-S-A	Ethernet switch with 16 SFP ports, 8 combo ports and 4 10GE ports (1 Console port, 16x100/1000 SFP ports, 8 combo 1000M/100M auto-adaptation SFP ports, 4 10GE/GE auto-adaptation SFP+ ports; standard power supply AC220V, the cooling fan, 1U, standard 19-inch rack-mounted installation)
SWM-2828-P-A	Ethernet POE/POE+ switch with 24 gigabit TX ports and 4 10GbE SFP+ ports (1 console port, 24 gigabit POE ports, 4x10GbE SFP+ ports; standard AC220V power supply, POE power 400W; the cooling fan, 1U, standard 19-inch rack-mounted installation)
SWM-2828-P-A-800	Ethernet POE/POE+ switch with 24 gigabit TX ports and 4 10GbE SFP+ ports (1 console port, 24 gigabit POE ports, 4x10GbE SFP+ ports; standard AC220V power supply, POE power 800W; the cooling fan, 1U, standard 19-inch rack-mounted installation)
SWM-2856-R-A	Ethernet switch with 44 gigabit TX ports, 4 gcombo ports 100/1000 and 8 10GbE ports (1 console port, 44 gigabit TX ports, 4 gigabit TX/SFP ports, 8x10GbE/GE SFP+ ; standard AC220V power supply; fanless, 1U, standard 19-inch rack-mounted installation)



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