28-Port Managed Gigabit Intelligent Ethernet Switch

【Introduction】

28-Port Managed Gigabit Intelligent Ethernet Switch, black iron shell design, built-in DC 12V Power supply, light and simple, with LED indicator on the panel, can dynamically display the connection and operation of equipment, provide simple fault detection methods, and facilitate maintenance and management; this series of switches provide advanced network management functions: redundant ring network, VLAN, cluster, QoS, speed control, port image, fault alarm and firmware online upgrade.

The adaptive port can automatically adapt to the 10m, 100m and 1000m networks, and can automatically adapt to the full duplex or half duplex mode; the MAC address self-learning function ensures error free data transmission; the store and forward mode prevents the damaged packets from flooding in the network; the flow control function can prevent the impact of a large amount of instantaneous data on the network; the port supports MDI/ Mdix auto flip function, non blocking line speed transmission of all ports.

It is mainly located in the core or convergence layer of user networks such as industrial parks, buildings, factories and mines, government agencies, community broadband, etc.; it can be widely used in Ethernet access scenarios such as small and medium-sized enterprises, Internet cafes, hotels, schools, etc.

【Main Features】

➢ Can transfer data for network surveillance cameras;

➢ 24 x 10/100/1000Mbps auto-sensing Ports, 4 x 10/100/1000Mbps SFP Ports, 1 x Console Port;

➢ Support IEEE802.3/IEEE802.3i/IEEE802.3uIEEE802.3ab/IEEE802.3z, store-and-forward;

➢ Ethernet port supports 10/100/1000M adaptive ;

➢ Panel indicator monitoring the status and help failure analysis;

➢ Fanless design, Natural Cooling, 1U Rack Mount;

➢ Support 802.1x port authentication, support AAA authentication, support TACACS+ authentication;

➢ Support WEB, TELNET, CLI, SSH, SNMP, RMON management;

【Application Environment】

➢ Metro Optical Broadband Network: Data network operators such as telecommunications, cable TV, and network system integration,etc.

➢ Broadband private network: Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries

➢ Multimedia transmission: Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications

➢ Real-time monitoring: Simultaneous transmission of real-time control signals, images and data

【**Specifications**】

I/O Interface	
Power	AC 100-240V/50-60Hz
Ethernet	24*10/100/1000Mbps Ethernet Port 4*10/100/1000Mbps SFP Port 1*Console Port
Performance	
Bandwidth	56Gbps (non-blocking)
Packet Forwarding rate	41.66Mpps
Packet Buffer	4M
Memory Capacity	128MB
Flash Capacity	16MB
MAC Address	8K
Jumbo Frame	9.6Kbytes
Transfer Mode	Store and forward
VLANs	4096
Standard	
Network protocol	IEEE802.3 (10Base-T) IEEE802.3u (100Base-TX) IEEE802.3ab (1000Base-TX) IEEE802.3z (1000Base-FX) IEEE 802.1q IEEE 802.1p(QoS) IEEE802.3x (Flow control)
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD)、EN61000-4-4 (EFT) Shock: IEC 60068-2-27 Free Fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Network Medium	10Base-T : Cat3、4、5 or above UTP(≤100m) 100Base-TX : Cat5 or above UTP(≤100m) 1000Base-TX : Cat5 or above UTP(≤100m)
optical characteristics	multi mode：850/1310nm （0-2KM） Single mode：1310/1550/1490nm（0-120KM）
Protection	
Security Certificae	CE、FCC、RoHS

Environment	
Working Environment	Working Temperature：-20~50°C Storage Temperature：-40~80°C Working Humidity ： 10%~90%，non-condensing Storage Temperature：5%~90%，non-condensing Working Height：Maximum10,000 feet Storage heigh：Maximum 10,000 feet

Indication	
LED Indicators	PWR、SYS、Link、ACT

Mechanical	
Structure Size	Product Size：440*208*44.5mm Package Size：500*275*85mm Product Net-Weight：2.0kg Product Gross-Weight：2.6kg
Packing Info	MEAS：520*445*300MM Packing Qty：5PCS Packing weight：14 KG
Power Voltage	Input Voltage: AC 100-240 V
Package List	Switch: 1 set Instruction manual: 1 Certificate of conformity: 1 Warranty card: 1 AC power cord 1 A pair of hanging ears

Ordering Info	
ZX-SWG20244S	28-Port Managed Gigabit Intelligent Ethernet Switch

Layer 2 Software Function	
Port Management	Enable/Disable Port
	Speed、Duplex、MTU Setting
	Flow-control
	Port Information Check
Port Mirroring	Supports both side-way port mirroring
Port Speed Limit	Supports port-based input / output bandwidth management
Port Isolation	Support the downlink port isolation, and can communicate with the uplink port

Storm Suppression	Supports unknown unicast, multicast, unknown multicast, broadcast type storm suppression Storm suppression based on bandwidth regulation and storm filtering	
Link Aggregation	Support static manual aggregation Support LACP dynamic aggregation	
VLAN	Access	
	Trunk	
	Hybrid	
	Support port, protocol, MAC-based VLAN partitioning	
	Support GVRP dynamic VLAN registration	
	Voice VLAN	
MAC	Support static addition, deletion	
	MAC address learning limit	
	Support dynamic aging time setting	
Spanning tree	Support STP spanning tree protocol Supports RSTP Rapid Spanning Tree Protocol Supports MSTP Rapid Spanning Tree Protocol	
Multicast	Support static addition, deletion IGMP-snooping	
	Support MLD-Snooping	
	Support v1/2/3 dynamic multicast monitor	
DDM	Support SFP/SFP+DDM	
Extended Function		
ACL	Based on source MAC, destination MAC, protocol type, source IP, destination IP, L4 port	
Qos	Based on 802.1p (COS) classification	
	Based on DSCP classification	
	Classification based on source IP, destination IP, and port number	
	Support SP, WRR scheduling strategy	
	Support flow rate limit CAR	
LLDP	Support LLDP link discovery protocol	
User settings	Add/delete users	
Log	User login, operation, status, events	

Anti-attack	DOS defense
	Support CPU protection and limits the rate of sending cpu packets
	ARP binding (IP, MAC, PORT binding)
Certification	Support 802.1x port authentication
	Support AAA certification
Network diagnosis	Support ping、telnet、trace
System Management	Device reset, configuration save/restore, upgrade management, time setting, etc.
Management function	
CLI	Support serial port command line management
SSH	Support SSHv1/2 remote management
TELNET	Support telnet remote management
WEB	Support Layer 2 settings, Layer 2 and Layer 3 monitor
SNMP	SNMP V1/V2/V3
	Support trap：ColdStart、WarmStart、LinkDown、LinkUp
RMON	Support RMON v1
Other functions	Support DHCP Snooping、DHCP Server、Option82
	Support dynamic ARP detection
	Support TACACS+ certification
	Support DNS certification
	Support port security settings
	Support MVR protocol
	Support cable detection VCT function
	Support UDLD protocol

【Product Rendering】