Ethernet Gigabit Switch (GZM-1000-2F8R1C)
10/100/1000Mbps Commercial Managed Ethernet Switch
2SFP+8 RJ45+1 Console Port, Integral Power supply

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Introduction

10-Port Managed Gigabit Intelligent Ethernet Switch, Support 8 * 10/100/1000 adaptive electrical ports, 2 * 1 Gb SFP ports, 1 console port, black iron shell design, 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

❖ 8 x 10/100/1000Mbps auto-sensing Ports, 2x 1000Mbps SFP Ports, 1 x Console Port;
❖ Support IEEE802.3/IEEE802.3u/IEEE802.3ab/IEEE802.3z, store-and-forward;
❖ Flow control mode: full-duplex adopts IEEE 802.3x standard, half-duplex adopts Back pressure standard；
❖ Support port auto flip (Auto MDI/MDIX)；
❖ Panel indicator monitoring the status and help failure analysis;
❖ Support 802.1x port authentication, support AAA authentication, support TACACS+ authentication;
❖ Support WEB, TELNET, CLI, SSH, SNMP, RMON management;
❖ Lightning Protection Surge: General Mode 6KV, Differential Mode 2KV ;ESD contact 8KV, air 15KV

Application Environment

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

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❖ 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	8*10/100/1000Mbps Ethernet Port 2*1000Mbps SFP Port 1*Console Port
Performance	
Bandwidth	20Gbps (non-blocking)
Packet Forwarding rate	14.88Mpps
Packet Buffer	4M
Memory Capacity	128MB
Flash Capacity	16MB
MAC Address	8K
VLANs	4096
Jumbo Frame	9.6Kbytes
Transfer Mode	Store and forward
MTBF	100000 hour
Standard	
Network protocol	IEEE802.3: 10Base-T IEEE802.3u :100Base-TX IEEE802.3ab: 1000Base-TX IEEE802.3z :1000Base-FX IEEE 802.3x：Flow control IEEE 802.1ab： LLDP/LLDP-MED (Link Layer Discovery Protocol) IEEE 802.1p ： LAN Layer QoS/CoS Protocol Traffic Prioritization(Multicast filtering function) IEEE 802.1q：VLAN Bridge Operation IEEE 802.1x：Client/Server Access Control and Authentication Protocol

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	IEEE 802.3ad：Standard method for performing link aggregation IEEE 802.1d：STP IEEE 802.1s：MSTP IEEE 802.1w：RSTP
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD)、EN61000-4-4 (EFT)、EN61000-4-5 (Surge) 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：200*120*45mm Package Size：303*190* 60mm Product Net-Weight：0.7KG Product Gross-Weight：1.2KG
Packing Info	MEAS：620*320*404mm Packing Qty：20PCS Packing weight：25 KG
Power Voltage	Power Input Voltage: AC 100-240 V Power Output: 12V1A
Package List	Ethernet switch: 1 Set、Instruction manual: 1 PCS、Certificate: 1 PCS、 Power cord:1PCS Serial cable: 1PCS、Power:1PCS、Operation manual CD: 1 PCS

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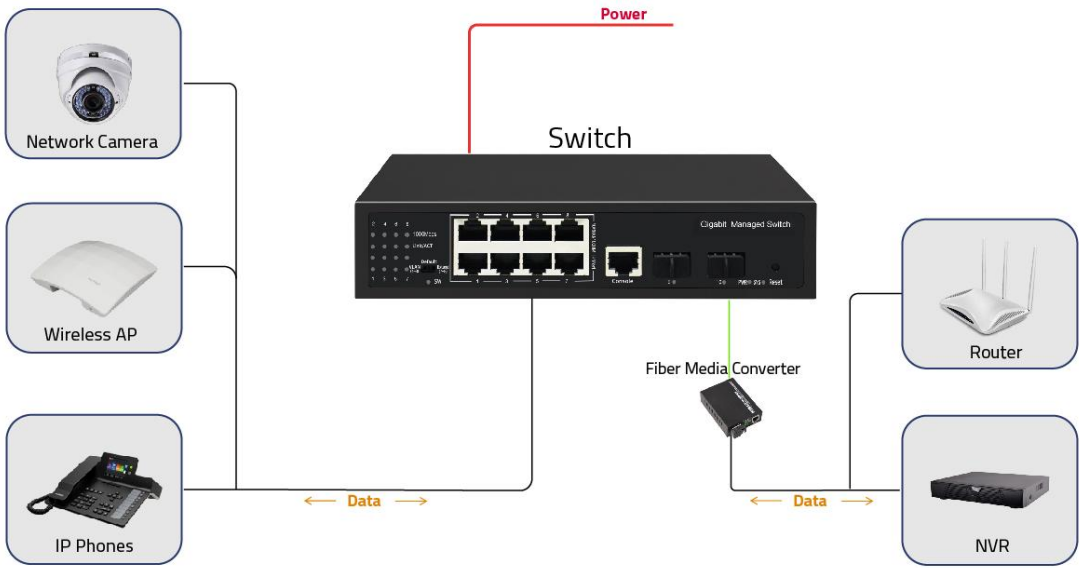| Ordering Info	
GZM-1000-2F8R1C	10-Port Managed Gigabit Intelligent Ethernet Switch
Software Function	
Port Management	Enable/Disable Port
	Speed、Duplex、MTU Setting
	Flow-control
	Port Information Check
Port Mirroring	Supports both side-way port mirroring
Port Speed Limit	Supports port-based input / 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

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DDM	Support SFP/SFP+DDM
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.
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、Option82
	Support dynamic ARP detection
	Support TACACS+ certification
	Support DNS certification

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	Support port security settings
	Support MVR protocol
	Support cable detection VCT function
	Support UDLD protocol

Application

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