16-port 10/100/1000M Ethernet + 8 Gigabit Combo ports + 4-port Gigabit SFP

➢ Features

- Support 16-port 10/100/1000M RJ45 + 8 Gigabit Combo ports + 4-port Gigabit SFP;
- Support static multicast filtering, IGMP Snooping;
- Support MW-Ring redundancy technique (failure recovery time <20ms);
- Support STP/RSTP/MSTP;
- Support managed function such as VLAN, QoS, Trunking, and port mirroring;
- Support CLI, WEB, Telnet, SNMP management;
- Support firmware upgrade online;
- Support relay alarm output;
- Support indicator status display;
- Support IP40 protection, aluminum alloy shell, fanless design;
- Support Broadcast storm suppression;
- Support dual AC/DC 220V power supply;
- Power supply input support anti-reverse protection and non-polarity;
- Support over Voltage, over current, EMC protection;
- Support wide operating temperature range from -40-75°C;
- 1U, 19-inch Rack-mount Installation;
- Warranty:5years

➢ Introduction

IES1028G-16G-8GC-4GS is a rugged industrial grade, Rack-mount, layer2, Managed Ethernet switch which supports 16-port 10/100/1000M RJ45 + 8 Gigabit Combo ports + 4-port Gigabit SFP. It provided some kinds of advanced network managed function, such as: MW-Ring redundancy technology (failure recovery time<20ms), VLAN, multicast, Quality of Service, Speed control, port mirroring, fault alarm and firmware remote update, also support CLI, WEB, Telnet, SNMP management, provide a user-friendly web console interface for easy configuration.

UPCOM IES1028G-16G-8GC-4GS adopts standard Industrial design, IP40 protection, aluminum alloy shell, support 1U, 19-inch Rack-mount installation, fanless design, EMC level 4 protection, dual power AC/DC220V, can satisfied the requirement of various industrial applications such as Intelligent Transportation System, Security Surveillance, Industrial Automation, Smart Grid, Rail Transportation Industry, Safely City, and New Energy, etc.

➢ Application

- Intelligent Transportation System
- Industrial Automation
- Security Surveillance
- New Energy and Utilities
- Data Center Network
- Electric Power Industry
- Smart City

➢ Specification

| Specification	
Product Name	28-port Full Gigabit Rack-mount Managed layer2 Industrial Ethernet switch
Product Model	IES1028G-16G-8GC-4GS
Port Definition	16-port 10/100/1000M RJ45 + 8 Gigabit Combo ports + 4-port Gigabit SFP
Gigabit Fiber	SFP optical port, LC connector
Console port	RS232/RJ45
Terminal block for power input	5.08mm terminal block
Terminal block for relay alarm	5.08mm terminal block, 1A@24VDC
Software Function	
Switch Properties	Support port Rate limit, flow control
	Support port aggregation
	Support IEEE 802.1Q VLAN and broadcast storm suppression
Redundancy protocol	Support MW-Ring redundancy and the recovery time<20ms
	Support STP/RSTP
Multicast	Support IGMP v1/v2, IGMP Snooping
	Support GMRP and Support static multicast filtering
Security	Support IEEE 802.1x,HTTP,RADIUS,user grading and MAC address binding
Service quality management	Supports SP and WRR queuing
	Support QoS setting
IP address management	Support DHCP server
Management and maintenance	Support Console and Web management
	Support SNMPv1/v2c
	Support unified PC software management
	Support software updating
	Support the IP/MAC address conflict alarm
	Support power off, power alarm, port alarm
	Support port mirroring
	Support log viewing
	Support Link-check and NTP
	Support accept and transfer frame statistics
Ethernet Standard	IEEE802.3-10BaseT, IEEE802.3u-100BaseTX/100Base-FX
	IEEE802.3x-Flow Control, IEEE802.1D-Spanning Tree Protocol
	IEEE802.1w-Rapid Spanning Tree Protocol
	IEEE802.1Q -VLAN Tagging
	IEEE802.1p -Class of Service
	IEEE802.1X-Port Based Network Access Control

Switch capability	
Priority Queues	8
VLAN Number	4096
IGMP Groups	512
MAC Table Size	16K
Backplane bandwidth	56Gbps
Switch Delay	<5μs
Communication distance	
Twisted-pair	100m(CAT5/CAT5e cable)
Multi-mode fiber	1.25G multi-mode: 850nm 2km
Single mode fiber	1.25G single mode: 1310nm 20km; 1550nm 40/60/80/100/120km
LED indicator lights	
Front panel LED lights	Port light: LINK/ACT;SPEED;
	Running light: RUN
	Power LED: PWR1/PWR2
	Alarm light: ALARM
Back panel LED lights	RJ45 Port light: LINK/ACT;SPEED
	Fiber light: LINK/ACT
Power	
Input power	Dual power AC/DC220V
Full-load consumption	<27W
Overload protection	support
Inversed protection	support
Redundancy protection	support
Working Environment	
Operating Temperature	-40°C~75°C
Storage temperature	-40°C~85°C
Ambient Humidity	5%~95% (non-condensing)
Physical Characteristics	
Shell	IP40 protection, aluminum alloy shell
Installation	Standard 1U,19-inch rack mounting
Dimension	482.6mm*44mm*315mm
Industry standard	
EMC	EN61000-4-2(ESD), Level 4 EN61000-4-3(RS), Level 4 EN61000-4-4(EFT), Level 4 EN61000-4-5(Surge), Level 4

	EN61000-4-6(CS), Level 4
	EN61000-4-8, Level 5
Impact	IEC60068–2-27
Falling	IEC60068-2-32
Shock	IEC60068-2-6
Warranty	
Warranty	5 Years
Certification	CE, FCC, RoHS

➢ Dimension
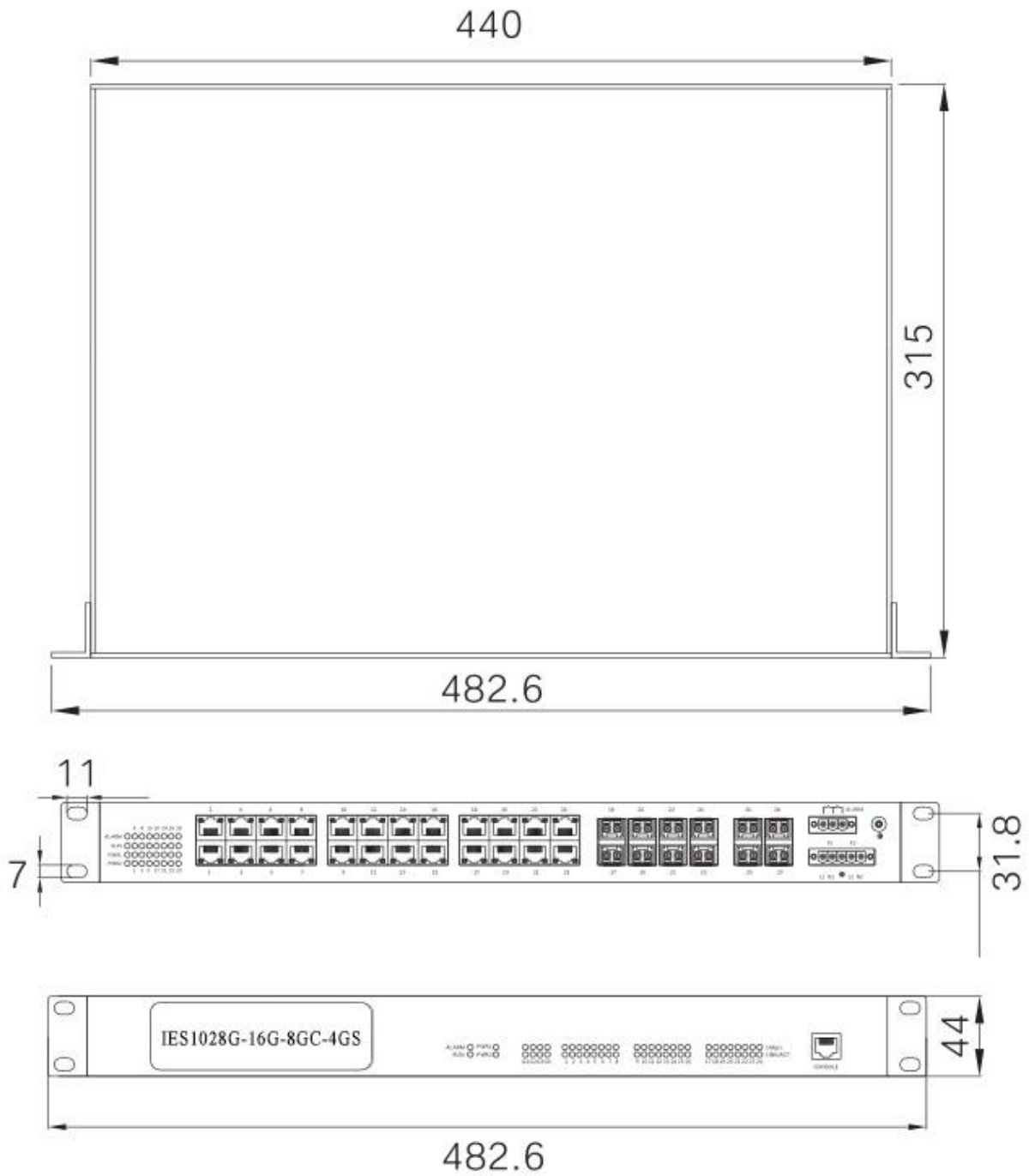
➢ Connection
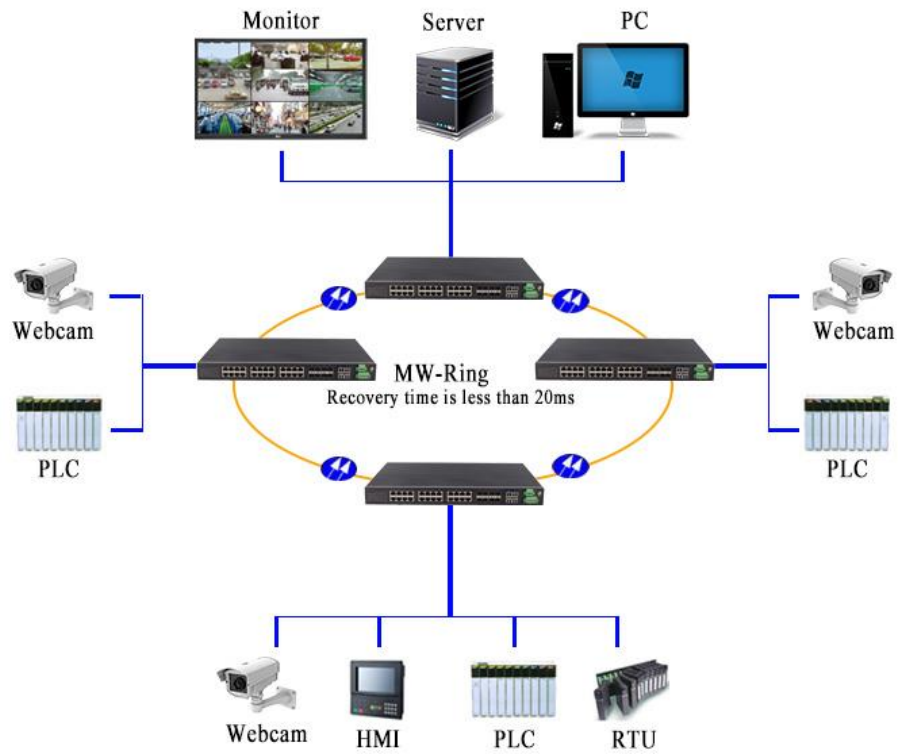
➢ Packing List

- Industrial Ethernet Switch *1
- User manual * 1
- Certificate of quality * 1
- Warranty card * 1