

8 Gigabit Combo ports + 20-port Gigabit SFP, Rack-mount, Managed

➤ Features

- Support 8 Gigabit Combo ports + 20-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

UPCOM IES1028G-8GC-20GS is a rugged industrial grade, Rack-mount, layer2, Managed Ethernet switch which supports 8 Gigabit Combo ports + 20-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.

IES1028G-8GC-20GS 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-8GC-20GS |
| Port Definition | 8 Gigabit Combo ports + 20-port Gigabit SFP + 1 console port |
| 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 | <40W |
| 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



