MISCOM7220GP-4GF-16GTPoE-DC48

20-Port Layer 2 Full Gigabit Managed DIN-Rail Industrial PoE Ethernet Switch



Product Description

The MISCOM7220GP-4GF-16GTPoE-DC48 is a 20-port Layer 2 full Gigabit managed DIN-rail industrial PoE Ethernet switch, providing PoE power output. Adopting a store-and-forward mechanism, it delivers powerful bandwidth processing capability, automatically detects packet errors, and reduces transmission faults, easily supporting Gigabit networking to ensure stable, reliable, and efficient data transmission. It supports WEB management and multiple network protocols, improving network efficiency, reliability, and security to meet the demands of various complex networks. The SFP ports support multiple optional optical modules and utilize fiber optic transmission over long distances, providing strong resistance to electromagnetic interference; the PoE copper ports support 10/100/1000M, full/half duplex, and MDI/MDI-X auto-adaptation, provide PoE power output, comply with IEEE 802.3af/at standards, and supply power to standard PD powered devices via network cables without affecting normal network data transmission, saving power cabling costs and delivering high-bandwidth, low-latency, and high-reliability network communication for industrial automation applications.

It provides 4 Gigabit SFP slots and 16 Gigabit PoE copper ports, featuring a reliable industrial-grade design that operates within a temperature range of -40°C to +75°C. It has passed rigorous testing for functionality, high and low temperatures, safety regulations, and electromagnetic immunity, meeting the requirements of various network environments and harsh industrial applications. It is widely suitable for industrial automation, integrated energy, smart cities, intelligent transportation, smart factories, and other fields.

GbE	PoE+	MW-Ring≤20ms	**Dual power supply**	EMS 3 Level	-40˚C~+75˚C	IP40

Key Features

- 4 Gigabit SFP slots + 16 Gigabit PoE copper ports
- PoE complies with IEEE 802.3af/at standards, with a maximum single-port PoE output power of 30W and a maximum total PoE output power of 240W
- PoE management, maximum power limitation and priority control
- Ring redundancy protocols such as MW-RingV1/V2, ERPS, STP/RSTP, and MRP, improving network reliability
- 802.1Q VLAN partitions multiple broadcast domains, enhancing security
- Port rate limiting, storm suppression and detection, effectively preventing network storms
- Static aggregation and LACP dynamic aggregation, increasing bandwidth and link redundancy
- QoS (Quality of Service), priority transmission, resolving network congestion
- MAC address binding, filtering, aging, and learning limitation
- IGMP Snooping, GMRP, reducing multicast data flooding
- LLDP, SNMP, RMON, enabling remote topology/network management and control
- ACL, 802.1X, AAA, TACACS+, enhancing access control security
- IPv4 and IPv6 (static) dual protocol stacks, meeting diverse network management requirements
- Loopback detection, port mirroring, Ping, DDM, line diagnostics
- Alarms for multiple scenarios such as traffic threshold exceeded, dual power failure, and port disconnection
- System log recording, classification, and download, with Email log support
- High-level EMS protection, ensuring stable operation in complex electromagnetic environments without external electromagnetic interference
- Dual DC48-57V power input, dual power supply redundancy, reverse polarity protection
- Aluminum alloy enclosure, efficient heat dissipation, IP40 protection rating
- -40°C to +75°C operating temperature

Technical Specifications

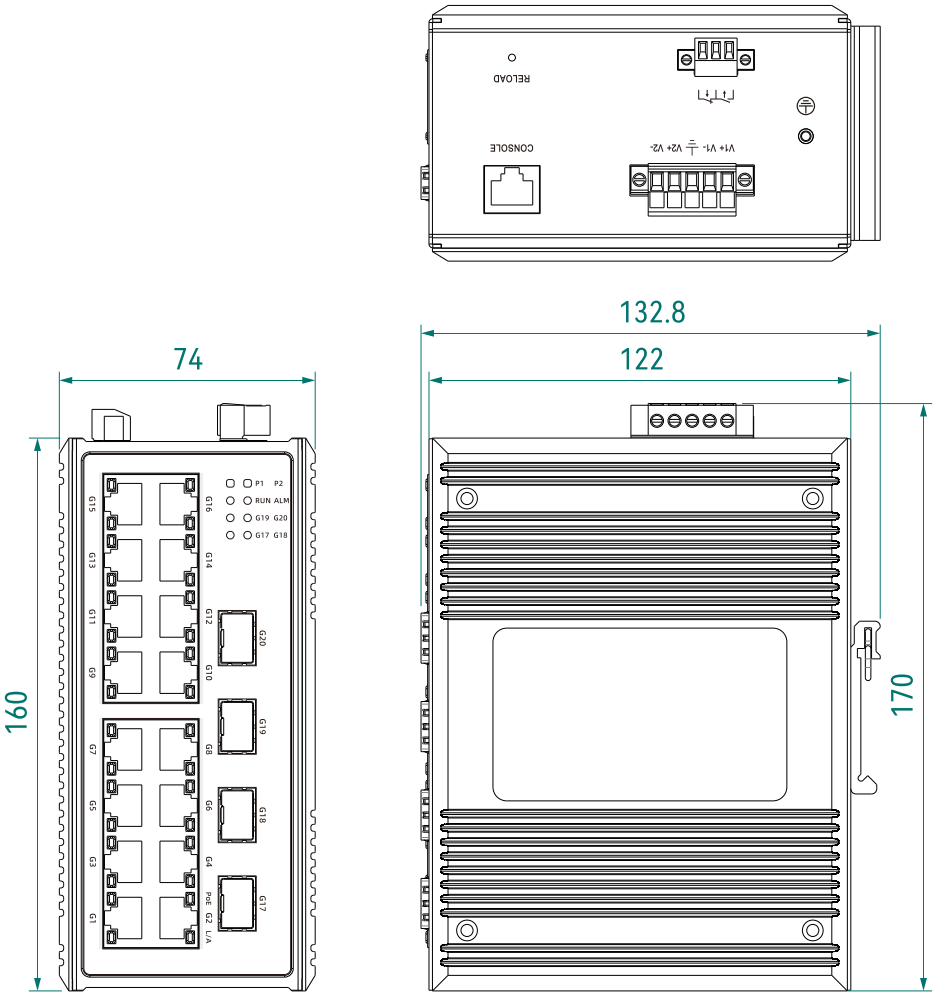
Protocol Standards	
IEEE Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3af/at, IEEE 802.3x, IEEE 802.1D/w, IEEE 802.1p, IEEE 802.1X, IEEE 802.1Q, IEEE 802.3ad, IEEE 802.1AB
Switching Performance	
Switching Mode	Store-and-forward
Backplane Bandwidth	56Gbps
Buffer Size	4.1Mbit
Jumbo Frame	10KB
MAC Address Table	8K
Interface Specifications	
Gigabit Optical Ports	4× 1000Base-X Gigabit SFP slots, compatible with 100Base-FX (Use of our designated SFP modules is recommended)
Gigabit Copper Ports	16 × 10/100/1000Base-T(X) auto-negotiating Gigabit PoE RJ45 copper ports, full/half duplex, Auto MDI/MDI-X; PoE compliant with IEEE 802.3af/at, maximum per-port PoE output power 30 W; PoE power pins: pins 1 and 2 positive, pins 3 and 6 negative
Relay	1× relay alarm output, using a 3-pin 3.81mm pitch locking terminal block
CONSOLE	1× CONSOLE port, RS232 signal RJ45 port, for device debugging
Button	Factory reset button
LED	Power LED, running LED, alarm LED, optical port LED, PoE LED, copper port link/activity LED
Power Parameters	
Power Input	DC48-57V, supports dual power supply redundancy, reverse polarity protection (When a single port PoE requires a 30W load, the power input must reach DC52V or above)
Full-load Power Consumption	≤15.7W@DC48V (excluding PoE portion), maximum total PoE output power 240W
Connection Type	5-pin 5.08mm pitch locking terminal block
Mechanical Parameters	
Dimensions	160×74×122 (mm) (excluding DIN-rail and connector dimensions)
Mounting Type	35mm standard DIN-rail mounting
Enclosure Protection	Aluminum alloy, IP40
Weight	Approx. 1.1kg

Technical Specifications

Operating Environment	
Operating Temperature	-40° C ~+75° C
Storage Temperature	-40° C ~+85° C
Relative Humidity	5%~95% (non-condensing)
Industry Standards	
EMS	IEC 61000-4-2 (ESD): Level 3 (Contact discharge ±6kV, air discharge ±8kV) IEC 61000-4-4 (EFT): Level 3 (Power: ±2kV; Network port: ±2kV) IEC 61000-4-5 (Surge): Level 3 (Power, network port: common mode ±2kV, differential mode ±1kV)
Warranty	
Warranty Period	5 years

Installation Dimensions

Unit：mm



Ordering Information

Standard Model	Gigabit SFP	Gigabit PoE	Power Supply Range
MISCOM7220GP-4GF-16GTPoE-DC48	4	16	Dual DC48-57V

Contact Us

WUHAN MAISVCH TECHNOLOGY CO., LTD.
Address: Building 6, Phoenix Industrial Park, No. 52 Liufang Avenue, East Lake High-tech Development Zone, Wuhan, China
Email: sales@maisvch.com
Official website: https://maisvch.com

maisvch.com

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