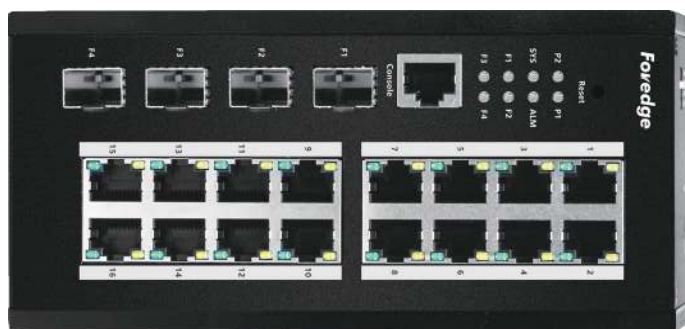




16-Port Gigabit Managed Industrial Switch IS1016GS-4F



Product Introduction:

IS1016GS-4F is a 20-port gigabit managed industrial Ethernet switch with 16 gigabit RJ45 ports and 4 gigabit optical ports, especially suitable for application scenarios which it is difficult to provide AC power and want to save the wiring costs. EMC Class 4 protection performance; corrugated high-strength aluminum profile shell, IP40 grade, low power consumption design, anti-vibration DIN-rail installation, operating temperature of -40℃ -75℃, can work in harsh environments. IS1016GS-4F can also support various network management functions: RUN-Ring (self-healing time <10ms), RSTP, VLAN, QoS, SNMPv1/v2c/v3, IEEE802.1X, SSH/SSL, port mirror, port aggregation, etc. The IS1016GS-4F is a reliable solution for intelligent transportation, video surveillance and other harsh industrial environments by its rich redundancy, switching and security management features.

Features:

Standards

- IEEE 802.3: Ethernet Media Access Control (MAC) Protocol
- IEEE 802.3i:10BASE-T Ethernet
- IEEE 802.3u:100BASE-TX Fast Ethernet
- IEEE 802.3ab:1000BASE-T Gigabit Ethernet
- IEEE 802.3z:1000BASE-X Gigabit Ethernet (fiber)
- IEEE 802.3ad: A standard method for performing link aggregation
- IEEE 802.3x: Flow Control
- IEEE 802.1p: LAN Layer 2 QoS/CoS protocol for traffic priority (multicast filtering function)
- IEEE 802.1q: VLAN Bridge Operation
- IEEE 802.1d: STP Spanning Tree
- IEEE 802.1s:MSTP Spanning Tree
- IEEE 802.1w: RSTP Spanning Tree

Switching characteristics

- MAC address table : 8K
- Port buffer : 4.1 Mb
- 100M forwarding speed: 148810pps
- Gigabit forwarding speed: 1488100pps
- Maximum filtering speed at 100M: 148810pps
- Gigabit maximum filtering speed: 1488100pps

Transmission mode: store and forward

Backplane bandwidth: 40 Gbps

Switching Delay: <5us

Communication Interface

Optical port : 4*1000Base-X (SFP)

RJ45 port : 16*10/100/1000Base-Tx RJ45 ports

Front panel indicator

Power indicator: P1, P2

System indicator: SYS

Alarm indicator: ALM

Interface indicator: Link & Access F1~ F4

Network port indicator: Link&Act 1~16

Power supply

Input voltage: 12-56 V DC

Input mode: pluggable 5-core 5.08 mm pitch terminal block

Support dual DC power backup, built-in overcurrent protection

Power supply supports reverse polarity protection

Power consumption (optional)

No-load power: 6W@52V DC

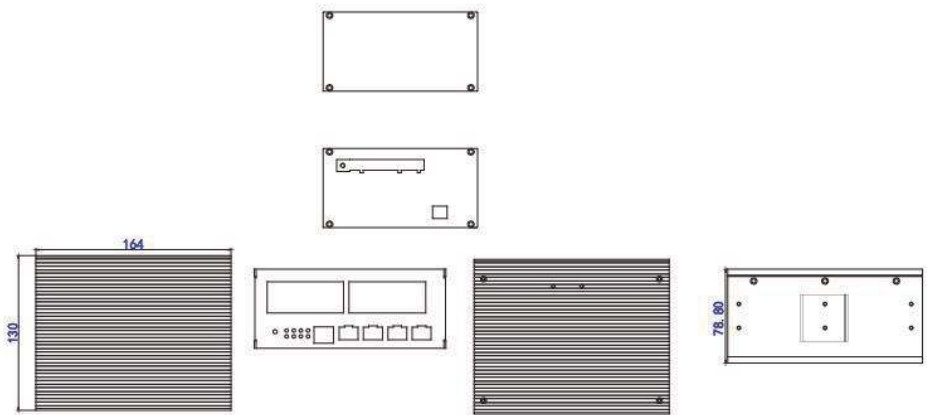
Physical properties

Housing: IP40 protection, corrugated high-strength metal housing

Installation: DIN rail installation

Dimensions (L × W × H): 164 mm × 130 mm × 78.8 mm

Weight: 1.55kg



Industry standard

EMI:FCC CFR47 Part 15, EN55022/CISPR22, Class A

EMS:

IEC61000-4-2 (ESD): $\pm 8\text{kV}$ (contact), $\pm 15\text{kV}$ (air)

IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)

IEC61000-4-4 (EFT): Power Port: $\pm 4\text{kV}$; Data Port: $\pm 2\text{kV}$

IEC61000-4-5 (Surge): Power Port: $\pm 2\text{kV/DM}$, $\pm 4\text{kV/CM}$; Data Port: $\pm 6\text{ kV}$

IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)

IEC60068-2-6 (Vibration)

IEC60068-2-27 (Shock)

IEC60068-2-32 (Free Fall)

Working environment

Operating temperature: $-40 \sim 75\text{ }^{\circ}\text{C}$

Storage temperature: $-40 \sim 75\text{ }^{\circ}\text{C}$

Relative humidity: $5\% \sim 95\%$ (no condensation)

Certification

CE, FCC, RoHS

Mean time between failures

360,000 hrs

Installation method:

Before installation, you must confirm the operating environment of the equipment: power supply voltage, installation space, installation method, etc. Please carefully confirm the following installation requirements:

- ✧ Check that the required cables and connectors are present for installation
- ✧ According to reasonable configuration requirements, check whether the cables are in place (no more than 100m)
- ✧ The product does not provide installation components. Users need to prepare the components of the selected installation type: screws, nuts and tools, etc. to ensure reliable installation

Power requirement: 12-56V DC

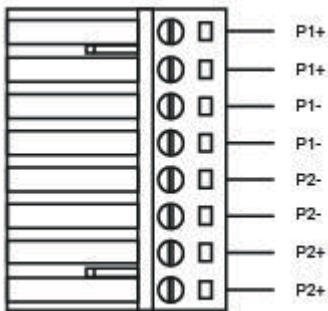
Environmental requirements :

Working temperature: -40~75℃

Storage temperature: -40~75℃

Relative humidity: 5% to 95% (no condensation)

Power access



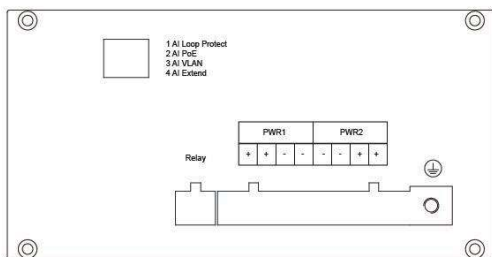
5pin 5.08mm terminal

Input range: 12-56VDC

P1&P2 dual redundant power supply,

Support reverse connection protection function

Ground protection



Connect a lightning protection grounding cable. Connect one end of the grounding cable to the lightning protection grounding terminal of the switch and the other end to the terminal blocks of the grounding bar in the housing project .

Rail installation

