



6-Port Gigabit Managed Industrial Switch

IS104GS-2F



Product Introduction:

IS104GS-2F is a 6-port gigabit managed industrial Ethernet switch with 4 gigabit RJ45 ports and 2 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°C ~75°C, can work in harsh environments. IS104GS-2F 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 IS104GS-2F 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: 12 Gbps
Switching Delay: <5us

Communication Interface

Optical port : 2*1000Base-X (SFP)

RJ45 port : 4*10/100/1000Base-Tx RJ45 ports

Front panel indicator

Power indicator: P1, P2

System indicator: SYS

Alarm indicator: ALM

Interface indicator: Link & Access F1~ F2

Network port indicator: Link&Act 1~4

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

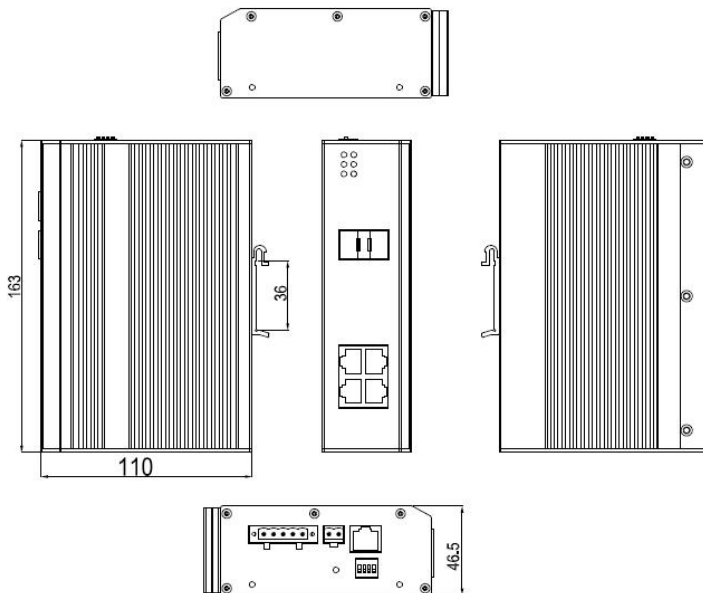
Physical properties

Housing: IP40 protection, corrugated high-strength metal housing

Installation: DIN rail installation

Dimensions (L × W × H): 163 mm × 110 mm × 46.5 mm

Weight: 0.7 kg



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

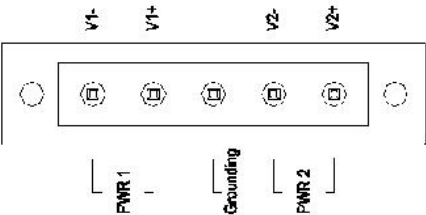
Environmental requirements :

Working temperature: -40~75℃

Storage temperature: -40~75℃

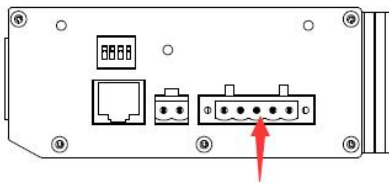
Relative humidity: 5% to 95% (no condensation)

Power access



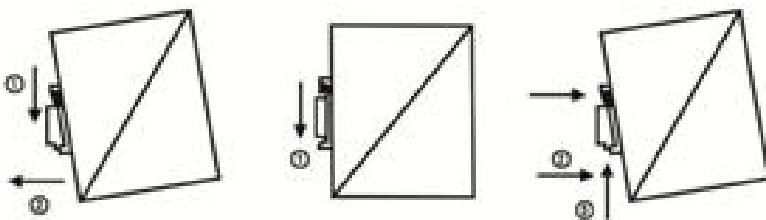
- 5pin 5.08mm terminal
- Input range: 12-56VDC
- P1&P2 dual redundant power supply,
- Support reverse connection protection function

Ground protection



Connect the ground terminal

Rail installation



Note: The picture in the instruction manual is for reference only, the specific object shall prevail