



16-Port Gigabit Managed Industrial POE Switch IS1016GPS-4F



Product Introduction:

IS1016GPS- 4F is a 16- port managed industrial-grade Gigabit POE switch, providing 16 Gigabit POE ports and 4 Gigabit optical ports. Each POE port can provide up to 30W of power, which is suitable for IEEE802.3af/at compatible powered devices (PDs), especially for applications where it is difficult to provide AC power and the wiring cost is high . EMC industrial grade 4 protection performance; corrugated high-strength aluminum profile shell, IP40 grade, low power design, anti-vibration rail installation, -40 °C -75 °C operating temperature , can work in harsh environments; IS1016GPS- 4 F can also support rich network management functions: RUN -Ring (self-healing time < 10ms), RSTP, VLAN, QoS, SNMPv1/v2c/v3, IEEE802.1X, SSH/SSL , port mirroring, port aggregation and other rich redundancy, switching and security management features, making it a reliable solution for intelligent transportation, video surveillance and other harsh industrial environments.

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
IEEE 802.3af
IEEE 802.3at

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 PoE ports

Front panel indicator

Power indicator: P1, P2

System indicator: SYS

Alarm indicator: ALM

Interface indicator: Link & Access F1~ F4

Network port indicator: POE, Link&Act 1~16

Power supply

Input voltage: 48-56 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

Full load power: 486W@52V DC (including POE output)

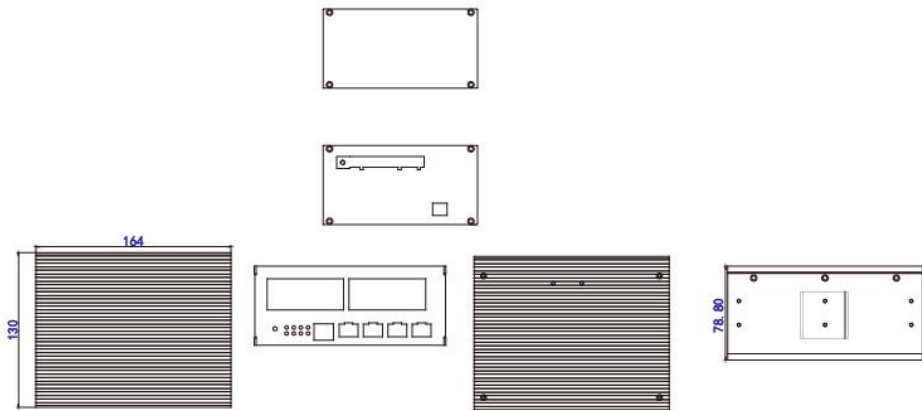
Physical properties

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: 48-56V DC

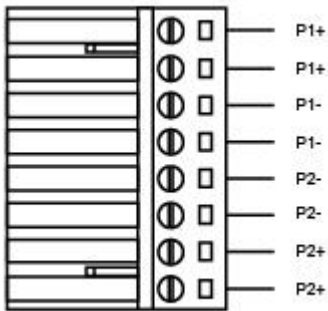
Environmental requirements :

Working temperature: -40~75℃

Storage temperature: -40~75℃

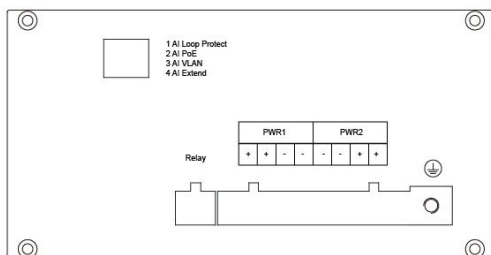
Relative humidity: 5% to 95% (no condensation)

Power access



- 5pin 5.08mm terminal
- Input range: 48-56VDC
- 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

