




8-port Gigabit managed industrial-grade PoE switch

ILS6000G-8P2F-L2M

Product Description

ILS6000G-8P2F-L2M is a Gigabit managed industrial PoE switch that provides 8 Gigabit RJ45 ports and 2 Gigabit SFP slots. The switch adopts fanless heat dissipation circuit design and redundant circuit design, and the equipment supports EMC industry level 4 protection performance; corrugated high-strength aluminum profile shell, IP40 grade, low power consumption design, earthquake-resistant rail installation, -40°C-75°C It can work in harsh environments; ILS6000G-8P2F-L2M can also support rich network management functions: ERPS, RSTP, VLAN, QoS, SNMPv1/v2c/v3, IEEE802.1X, SSH/SSL, port mirroring, port aggregation, etc. Rich redundancy, switching and safety management features make it a reliable solution for intelligent transportation, video surveillance and other harsh industrial environments

Product model and appearance

	ILS6000G-8P2F-L2M	<ul style="list-style-type: none">• Input voltage: DC: 48-56V• Working temperature: -40°C ~ +75°C• Shell: IP40 protection level, fanless design• Static electricity: 8KV-15KV• MTBF: 100000 hours
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Product hardware parameters

Model	ILS6000G-8P2F-L2M
Port description	8 x electrical port (RJ45) 1000BASE-T 2 x optical port (SFP) 1000BASE-X
Optical port characteristics	Interface type: SFP Speed: 1000Mbps Wavelength: Single-mode fiber: 1310nm/1550nm Multimode fiber: 850nm Core standard: single mode 8.3μm, 8.7μm, 9μm, 10μm Multimode 50μm, 62.5μm, 100μm
Electrical port characteristics	Interface type: RJ45 Rate: 10/100/1000Mbps adaptive Duplex mode: full/half duplex Connection mode: MDI/MDIX automatic flip

Protocol standard	IEEE802.3i 10 BASE-T, IEEE802.3u 100 BASE-TX IEEE802.3ab 1000 BASE-T IEEE802.3z 1000 BASE-LX IEEE802.3af Power over Ethernet IEEE802.3at Power over Ethernet IEEE802.3x Flow Control IEEE802.3az EEE
Exchange performance	Backplane bandwidth: 20Gbps Packet forwarding rate: 14.88Mpps MAC address: 8K Packet buffer: 2Mbit Forwarding mode: store and forward
power supply	Input power: DC 48~56V (6PIN Phoenix terminal), 1*DC interface Power consumption: full load <6W (not including PoE) Dual power supply: support Redundant protection: support Reverse connection protection: support
Mechanical structure	Shell material: metal Protection level: IP40 Size: 153*130*44mm (Excluding connector protruding part and DIN rail assembly size) Weight: 0.85Kg Installation method: DIN rail installation
surroundings	Working temperature: -40℃~75℃ Storage temperature: -40℃~85℃ Relative humidity: 5%~95% RH (non-condensing)
Industry Standard	IEC61000-4-2 Level 4 (8K/15K) (ESD - Electrostatic discharge) IEC61000-4-3 Level 3 (10V/m) (RS-Radiated Surge Immunity) IEC61000-4-4 Level 3 (1V/2V) (EFI-Express Firing Interference) IEC61000-4-5 Level X (6KV/6KV) (8/20us) (Surge-surge power) IEC61000-4-5 Level X (6KV/6KV) (10/700us) (Surge-Ethernet port) IEC61000-4-6 Level 3 (10V/m) (CS-conducted immunity) IEC61000-4-8 Level 4 (30A/m) (PFMF) Mechanical: IEC60068-2-6 (Vibration) IEC60068-2-32 (Free fall) 0.5m
Warranty	Warranty period: 3 years (can be extended)

Software specifications

Hardware watchdog	stand by
PoE management	Support PoE total power settings Support single port PoE power settings Support port PoE power supply priority design Support custom PoE power supply time
Loop protection	Support ERPS ring protection Support 50MS loop since healing Support BPDU protection, root protection and loopback protection
Link aggregation	Support link aggregation (LACP) Support static polymerization, dynamic aggregation Support for maximum support for 8 aggregation groups Support for source port, source MAC, destination MAC, source IP, destination IP, source IP port, destination IP port
Summing tree (STP)	Support STP (IEEE 802.1D), Support RSTP (IEEE 802.1W) Support edge port Support spanning tree BPDU packet statistics Support root bridge protection, TC protection, BPDU protection, BPDU filtering
DHCP	Support DHCP server Support DHCP Snooping Support Option82;
VLAN	Support 802.1q VLAN Maximum support 4094 Support QinQ Support Mac VLAN Support GVRP protocol Support GMRP protocol Support 1: 1 and N: 1 VLAN mapping function Support three port modes: Access, Trunk, and Hybrid, Translation, QinQ Including the foundation in Qinq and flexible in QinQ
Security feature	Based on user grading management and password protection Support for port numbers, IP addresses, MAC addresses limit users access Support HTTPS, SSH V1 / V2, SSL V1 / V2 Support IP-Mac-Port-VLAN binding Support ARP protection, IP source protection, DOS protection Support DHCP Snooping, DHCP Attack Protection Support 802.1x certification, Support port security, port isolation Support port alarm

Access Control (ACL)	Supports L2 (Layer 2) ~ L4 (Layer 4) package filter function Support port mirror, port redirection, flow rate, QoS heavy mark Support Mac ACL Support IP ACL
Service quality (QoS)	Support 8 port queues Support port priority, 802.1p priority, DSCP priority Support SP, WRR, WFQ priority scheduling algorithm
Multicast	Support fast leaving mechanism Support static multicast group, dynamic multicast group Support IGMP Snooping Support multicast filtering, packet statistics, unknown multicast discard
Management and maintenance	Support Web network management (HTTP, HTTPS, SSL V3, TLS V1) Support CLI (Telnet, SSH V1 / V2, local serial port) Support SNMP V1 / V2 / V3, compatible public MIBS Support LLDP, RMON Support SNMP Support CPU monitoring, memory monitoring Support system log, hierarchical warning, support remote log server Support port alarm Support HTTP software upgrade, configuring backup import Support TFTP upgrade

Installation method

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

1. Check if there are cables and connectors required for installation
2. According to the reasonable configuration requirements, check whether the cable is in place (not more than 100m)
3. The product does not provide installation components, the user needs to prepare the components of the selected installation type: screws, nuts, tools, etc., to ensure reliable installation

Power requirements: 48-56V DC

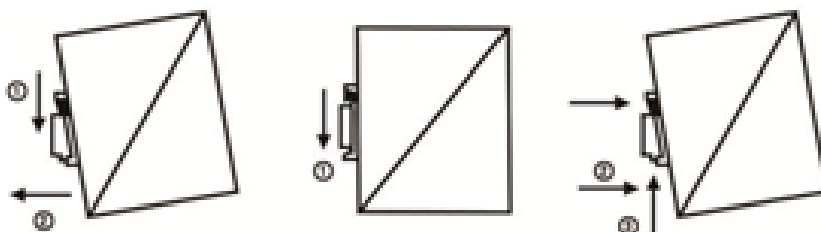
Environmental requirements

Working temperature: -40 ~ 75°C

Storage temperature: -40 ~ 85°C

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

Rail installation



Note: All pictures are schematic diagrams, and the actual product is the main product

product description

ILS6000G-8P2F-L2M	8*10/100/1000M auto-negotiation RJ45 ports + 2*1000M SFP fiber slots
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LINK: <https://www.acorid.com/productinfo/992076.html>