

12-Port Gigabit Ethernet + 12-Port Gigabit SFP Industrial Switch

Model: IES1024-12G-12GS

➤ Features

- 12 gigabit RJ45ports and 12 gigabit SFP optical interfaces
- 19-inch all-aluminum alloy shell, good heat dissipation characteristics, metal-oxygen oxidation process, IP40 protection level
- Each RJ45port or optical port supports the standard ERPS ring network protocol, and the self-healing time is less than 20ms;
- ISupport Web, CLI (Console), Telnet management functions
- Power failure alarm, loop alarm



This product adopts an industrial rail design, it is a new generation of multi-service access network management Gigabit redundant Ethernet switches, with high integration and rich functions. It has 12 Gigabit electrical ports and 12 Gigabit optical ports, which is especially suitable for occasions with large data streams such as video transmission.

It supports a variety of Layer 2 management protocols required for industrial switch applications, supports ITU G.8032 redundant ring network protocol, and forms cascaded, single ring, tangent ring network and other topology structures, and the self-healing time is less than 20ms, ensuring that Real-time performance and stability of the network. The switch adopts mature technology and open network standards, and adapts to low and high temperatures. It features strong anti-electromagnetic interference, anti-salt spray, anti-vibration and anti-shake. It can meet the harsh working environment requirements of industrial sites, and provides efficient, reliable and fast solutions for the industrial Internet of Things.

➤ Description

Model	IES1024-12G-12GS
Interface	12*10/100/1000M RJ45 ports, 12*100/1000M SFP optical ports, 1 Console port
Network Protocol	IEEE802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE802.1q, IEEE802.1p, IEEE802.1z, IEEE802.1d, IEEE802.1s, IEEE802.1w, IEEE802.1ax, IEEE802.1ak
Ethernet Port	Port 1-12 can support 10/100/1000BaseT (X) automatic detection, full / half duplex MDI/MDI-X adaptive
SFP Port	Gigabit SFP optical fiber interface, default matching optical modules, need to buy separately, (optional order mode / multi-mode, single fiber / double fiber optical module.
Forwarding Mode	Store and Forward
Switching Capacity	52Gbps
Forwarding Rate	1000Mbps: 1488000pps
MAC	8K
VLAN	4K
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
Optical Cable	Multi mode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Power Consumption	Standby:<16W; Full load:<240W
MTBF	> 100,000 hours
Power Supply	AC220V or DC-48V (power supply optional), support power redundancy backup

Operation TEMP / Humidity	-40~+85°C;0%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C;0%~95% RH Non condensing
Dimension	485*200*45mm rack type
Net /Gross Weight	3.7Kg/pc
Lightning protection / protection level	Lightning protection: 6KV 8/20us;Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation):30A/m 1MHz IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class A IEC61000-6-2(Common Industrial Standard)
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS;
Warranty	3 years , lifelong maintenance.

➤ Management functions

- Support ingress/egress-based port rate limiting, half-duplex backpressure flow control and 802.3X full-duplex flow control
- Support storm suppression function based on broadcast, multicast and unknown unicast
- Support IEEE 802.1Q 4K VLAN, support QINQ
- Support port mirroring, Syslog, Ping command, etc
- Support COS, DSCP, 8 queues, support WRR, SP, WFQ scheduling mode, policy QOS
- Support port traffic statistics, online upgrade
- Support STP/RSTP, MSTP, support EAPS, ERPS

- Support IGMP Snooping V1/V2/V3, support GMRP
- Support manual aggregation, support static/dynamic LACP protocol
- Support one relay alarm, support RMON management, TRAP alarm
- Support DHCP Snooping, Option 82, support 802.1X
- Support hierarchical user management, support ACL access control list
- Support DDOS, supports port-based MAC filtering/binding
- Support AAA capability to realize functions such as authentication, user authorization and operation record auditing
- Support cable detection, easy to check the network cable length in engineering
- Support NTP, easy to synchronize network time in real-time
- Support IPV4/IPV6 static routing Layer 3 switching technology

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