24 Ports Gigabit Managed Industrial Switch IS1024GS-8F-4TF

Product brochure

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Product Introduction

IS1024GS-8F-4TF is a 24-port gigabit managed industrial Ethernet switch with 16 gigabit RJ45 ports,8 SFP combo ports, 4 10G SFP+ optical ports. EMC industrial level 4 protection performance; Corrugated high-strength aluminum profile shell, IP40 grade, low-power design, rack mounted, with a working temperature of -40 °C -75 °C, suitable for working in harsh environments; IS1024GPS-8F-4TF 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 make it a reliable solution for intelligent transportation, video surveillance, and other harsh industrial environments.





Highlights

Port 6KV lightning protection

• All ports support 6KV lightning protection.

Powerful application capabilities

• Support 802.1Q VLAN, MAC VLAN, IP VLAN, users can divide VLAN flexibly as needed.

• Support QoS, 8 port queues, support port priority, 802.1P priority, DSCP priority, support SP, WRR, SP+WRR, WFQ priority scheduling algorithm.

• Support ACL, support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function, provide flexible and secure access control policy.

• Supports IGMP v1/v2/v3 Snooping and MLD v1/v2 Snooping to meet the requirements of multi-terminal HD video surveillance or video conferencing.

• It supports the fast leave mechanism and querier of Layer 2 multicast, and supports Layer 2 IPv4 static multicast and Layer 2 IPv6 static multicast.

• Support RIP dynamic routing protocol, solve the routing problem after the small and medium-sized network is divided into subnets, and simplify the network configuration.

• Support static routing protocol, and manually configure routing entries to realize communication between different network segments. • Support ARP configuration, so that hosts in different physical networks on the same network segment can communicate normally.

Full security mechanism

• Completed security authentication mechanism: It supports IEEE 802.1x, Radius, Tacacs+, etc.

• The loop detection mechanism can ensure the stable operation of the network for a long time.

• High security features such as port isolation in VLAN, DHCP-Snooping and IP+MAC+port binding, etc., to further ensure user data security.

• Support multi protections like ARP, IP source and DoS.

• Support declining user access by the port numbers, IP address, and MAC address.



Diverse reliability protection

• Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols to eliminate Layer 2 loops and implement link backup.

• Supports loop protection, root bridge protection, TC protection, BPDU protection, and BPDU filtering.

• Supports relay alarm output functions such as power failure and port disconnection.

• EMC Class4 and anti-jamming capability.

Flexible and convenient management and maintenance

- Support various management methods such as Console, Telnet, and SSH.
- Support simple and efficient WEB management (HTTP, HTTPS, SSL V3)
- Support TFTP mode to upload and download files.
- Support SNMP V1/V2/V3

• Support Hored Apollo cloud platform, which can realize all-round remote operation and maintenance such as automatic device discovery, network topology management, and remote configuration management of devices.

Compliance

EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±6kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC60068-2-6 (Vibration) IEC60068-2-7 (Shock) IEC60068-2-32 (Free Fall)

Specifications

Hardware	
Network Interface	 16*10/100/1000Mbps RJ45 8*1000M SFP combo ports 4*10G SFP+ ports 1 Console port
Network Protocol	 IEEE802.3、IEEE802.3i、IEEE802.3u、IEEE802.3ab、 IEEE802.3z、IEEE802.3ad、IEEE802.3x、IEEE802.1p、 IEEE802.1q、IEEE802.1w、IEEE802.1d、IEEE802.1s
Performance	 Switching capacity: 128Gbps (Non-Block) Forwarding rate: 95.2Mpps MAC table: 16K Packet buffer: 12Mb Forwarding Type: Storage and Forwarding
LED Indicator	 Power Indicator: P1,P2 System Indicator: SYS Alarm Indicator: ALM SFP Port Indicator: Link&Act F1~F4 RJ45 Port Indicator: Link&Act 1~24
Power Supply	 Input voltage: 12-56V DC Input port: Pluggable 5 pin terminals block, 5.08mm pitch (support dual DC power source backup, built-in overcurrent protection, support anti-reverse connection)
Physical Parameter	 Casing: Corrugated high-strength metal housing, IP40 Installation: Rack Dimension (LxWxH): 440mm×320mm×44mm
Environmental Condition	 Operating Temperature: -40 ~ 75°C Storage Temperature: -40 ~ 85°C Operating Humidity: 5% ~ 95% RH (non-condensing) Storage Humidity: 0% ~ 95% RH (non-condensing)
Certification	• CE/ROHS/FCC

Software Spe	ecifications:
	IEEE 802.3:Ethernet media access control (MAC)
	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 (optical fiber)
Protocol	IEEE 802.3ad:Standard method of link aggregation
Standards	IEEE 802.3x:Flow control
	IEEE 802.1p:LAN layer 2 qos/cos protocol related to 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
	Support L3 interface
L3 Interface	Support IPV4,IPV6 addresses configuration
	Support ARP configuration
	Support ND configuration
L3 Routing	Support IPV4 static routing
	Support IPV4 RIP v1/v2
	Support IPV4 OSPFv2
	Support IPV6 static routing
	Support IPV6 RIPng
	Support IPV6 OSPFv3

Software Spe	ecifications:
VLAN	Support 4K VLAN
	Support 802.1Q VLAN,MAC VLAN ,IP VLAN, Voice VLAN
DHCP	Support DHCP server
	Support DHCP relay
	Support DHCP Snooping
	Support IEEE 802.1d standard
MAC Table	Support MAC addresses automatic learning and aging
	Support static, dynamic and filtered address tables
	Password guard
	Support restricting user access based on port number, IP address and MAC address
	Support HTTPS,SSL V3,TLS V1,SSH V1/V2
Security	Support IP-MAC-PORT ternary binding
Features	Support ARP protection, IP source protection, DOS protection
	Support DHCP Snooping, DHCP Attack protection
	Support 802.1X certification,AAA
	Support Port security, port isolation
	Support CPU Protection function
ACL	Support L2(Layer 2) ~ L4(Layer 4) packet filtering function
	Support Port mirroring, flow speed restriction, QoS re marking
QoS	Support 8 port queues
	Support port priority, 802.1p priority, DSCP priority
	Support SP,WRR,SP+WRR,WFQ priority scheduling
STP	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) standard
	Support Loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering
	Support optical port 50ms switching

Software Specifications:

Support Layer 2 IPv4 static multicast Support Layer 2 IPv6 static multicast Support IGMP v1/v2/v3 layer 3 multicast Storm Support Multicast suppression Support Broadcast suppression Support Unknown unicast suppression Support Static convergence Support Dynamic convergence Support 32 aggregation groups at most Support IPv6 Ping IPv6 Tracert IPv6 Telnet	Software Spec	
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Support System log, classification warning Support Ping,Tracert Detection, cable detection		Support DNS Client
Support Ping, Tracert Detection, cable detection		Support CPU Monitoring, memory monitoring
		Support System log, classification warning
Support Apollo cloud platform one-stop management and maintenance		Support Ping,Tracert Detection, cable detection
		Support Apollo cloud platform one-stop management and maintenance

Networking Application:

