PRODUCT DESCRIPTION

IPS-M4GT-2SFP is a full Gigabit managed industrial PoE switch with 4 10/100/1000M PoE ports and 2 10/100/1000M SFP fiber ports. 4 electrical ports can support IEEE 802.3af/at standard PoE power supply with a total power of 130W. it supports IEEE802.3, It supports IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3x, IEEE802.3z, IEEE802.3ab, IEEE802.3af, IEEE802.3at. protocol standards and complies with CE, ROHS, FCC, UKCA.

FEATURE

- Provide 4 10/100/1000Mbps RJ45 ports, 2 SFP fiber ports.
- Support IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3x, IEEE802.3z, IEEE802.3ab,IEEE802.3af, IEEE802.3at.
- 4 PoE ports support 802.3af/at, per PoE power port up to 30W Poe budget.
- Support IPv4/IPv6 Static Routing, Address Resolution Protocol (Static ARP).
- Support non-blocking wire speed forwarding.
- IP30 protection grade, and ensures the stable operation of the equipment in bad environment.

APPLICATIONS

pecifically Designed for Industrial Environments Widely used to build a cost-effective, stable and reliable communication network for a veriety of industrial scenarios.

- Energy
- Transsportation
- Shipping
- Oil
- Mining
- Metallurgy

TECHNICAL SPECIFICATION

Power Supply	44~ 57 VDC/ 3A(MAX)
Standards	IEEE 802.3, 802.3i, 802.3u, 802.3x, 802.3z, 802.3ab, 802.3af, 802.3at
Ports	4×10/100/1000Mbps RJ45 ports+2×SFP ports
Indicators	Speed 1000M (green), network Indicator: Link (yellow), SFP Indicator: L/A (green)
Ethernet Port Feature	10/100/1000BaseT (X) automatic detection, full / half duplex MDI/MDI-X adaptive
SFP Port Characteristic	Gigabit SFP fiber interfaces, default matching optical modules, need to buy separately, (optional order mode / multi-mode, single fiber / double fiber optical modules).
Forwarding Mode	Store and Forward(Full Wire Speed)
Dimensions	136 mm *108 mm *38.5 mm
PoE port	4 802.3at/af standard POE
Max / Average Power Port	30W per port
Power Consumption	Standby:<10W(NOT PoE);Full load:<130W(with PoE)
MAC Address Table	8K
Switching Capacity	128Gbps
Packet Forwarding Rate	8.928Mpps
Packet Buffer	4Mbit
LED Indicator	Power/ System : SYS (green) , Network: Link (yellow), fiber port: L/A (green), PoE: PoE (green)
Net /Gross Weight	<1.2kg / <1.5kg
Environment	Operating Temperature: -40°C — 75°C (-40°F~167°F) Storage Temperature:-40°C — 85°C (-40°F ~185°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing
Warranty	3 years , lifelong maintenance

Certification & Warranty	
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 oscill ation):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)
Mechanical Properties	IEC60068-2-6 (anti vibration)
	IEC60068-2-27 (anti shock)
	IEC60068-2-32 (free fall)
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
Warranty	3 years

Network Management Features	
Interface	IEEE802.3X (Full-duplex)
	Port temperature protection setting
	Port green Ethernet Energy-saving setting
	Broadcast storm control based on port speed
	The speed limit of the message flow in the access port.
	The minimum particle size is 64Kbps.
Layer 3 Features	L2+ network management, IPV4/IPV6 management
	L3 soft routing forwarding,
	Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	4K VLAN based on port, IEEE802.1q
	VLAN based on the protocol
	VLAN based on MAC
	Voice VLAN, QinQ configuration
	Port configuration of Access, Trunk, Hybrid
Port Aggregation	IEEE 802.3ad, LACP, Static aggregation
	Max 7 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Industrial Ring Network Protocol	G.8032 (ERPS), Recovery time less than 20ms
	250 Ring at most, Max 1024 devices per ring.

Multicast	MLD Snooping v1/v2, Multicast VLAN
	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	Flow-based Rate Limiting
	Flow-based Packet Filtering
	8*Output queues of each port
	802.1p/DSCP priority mapping
	ToS, Diff-Serv QoS, Priority Mark/Remark
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	Port-based Issuing ACL, ACL based on port and VLAN
	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
Security	IP-MAC-VLAN-Port binding
	ARP inspection, Anti-DoS attack
	AAA & RADIUS, MAC learning limit
	Mac black holes, IP source protection
	IEEE802.1X & MAC address authentication
	Broadcast storm control, Backup for host datum
	SSH 2.0, SSL, Port isolation, ARP message speed limit
	User hierarchical management and password protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	One-key recovery
	Cable Diagnose, LLDP
	Web Management (HTTPS)
	NTP, System work log, ICMP, Ping Test
	CPU instant utilization status view
	Console/AUX Modem/Telnet/SSH2.0 CLI
	Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3
	ONV NMS - smart network management system platform (LLDP+SNMP)
System	Category 5 Ethernet network cable
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network

ORDER INFOMATION

PRODUCT	PART NUMBER
Industrial Gigabit L2+ managed POE switch, 4 10/100/1000Mbps RJ45 ports, 2xGigabit SFP	IPS-M4GT-2SFP