

10-Port Gigabit Easy Managed Industrial PoE Switch (ATRO-IPS53108PFM)



OVERVIEW

ATRO-IPS53108PFM is a Gigabit Easy managed industrial PoE fiber switch independently developed by ATRO. It has 8*10/100/1000Base-T adaptive RJ45 ports and 2*10G Base-X uplink SFP fiber ports. Port 1-8 can support IEEE 802.3af/at/bt PoE+ standard and single-port PoE power up to 60W. As a PoE power supply device, it can automatically detect and recognize the power-receiving equipment that meets the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP camera, VoIP, and industrial sensors through the network cable. It also meets the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and industrial scenes such as shipping, metallurgy, and green energy construction forming a cost-effective, stable, and reliable communication network.

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10-Port Full Gigabit Managed Industrial PoE Switch (ATRO-IPS53108PFM)

The ATRO-IPS53108PFM can support the ATRO-NMS management platform and cloud management APP, which can realize network topology management, link aggregation, port management, PoE management, remote operation and maintenance, etc. It has high reliability, easy installation and maintenance, a fast switching function, and multiple access ports, suitable for access to LAN devices of various sizes.

FEATURE

■ Gigabit access, SFP fiber port uplink

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- ◇ Support Gigabit RJ45 port and SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Smart PoE power supply

- ◇ Comply with IEEE 802.3af/at/bt PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- ◇ Support remote PoE management function, realize remote power on/off of PoE port, check port power status, query PoE port fault, etc.
- ◇ 8*10/100/1000Base-T RJ45 ports can support PoE power to meet the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

■ Extreme Optimization, minimalist application

- ◇ Real-time fault alarm and fault location.
- ◇ Remote upgrade, remote restart, and factory reset.
- ◇ Local platform, cloud platform, and mobile APP operation and maintenance management.
- ◇ Visualized network topology management, VLAN division, QoS, link aggregation, port mirroring, port control, and bandwidth management.
- ◇ Practical network management functions are retained according to industry input application requirements and network deployment and centralized operation and maintenance can be quickly realized through the operation and maintenance platform.

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■ Stable and Reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ Link Monitoring Capabilities: The device is supported Uni-directional Link Detection (UDLD) to monitor the integrity of fiber or copper links and automatically shut down the affected port to prevent potential network loops when unidirectional traffic is detected.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, and L/A.
- ◇ Low power consumption, no fan, Aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ATRO-IPS53108PFM
Interface Characteristics	
Fixed Port	8*10/100/1000Base-T PoE ports (Data/ Power) 2*10G Base-X uplink SFP fiber ports (Data) 2 sets V+, V- redundant DC power port (5P phoenix terminal)
Ethernet Port	Port 1-8 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e/6 or later UTP (≤100 meters)
Optical Fiber Port	Gigabit optical interface, default no included optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/0-40km, 1550nm / 0-120km
Chip Parameter	
Network Management Type	L2
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x

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Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3x IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X,, IEEE 802.3az with LLDP and LLCP-MED
Forwarding Mode	Store and Forward (Full wire-speed)
Switching Capacity	20Gbps (non-blocking)
Forwarding Rate @64byte	14.88Mpps
MAC & VLAN	16K & 256 Active VLANs
Flash Memory	1GB
Jumbo Frame	9.2K
Memory	4GB DRAM
LED Indicator	Power/System: SYS (Green), Network: Link (Yellow), PoE: PoE(Green), Fiber port: L/A (Green)
Reset Switch	Press for 6 seconds and then release to restore to factory settings Short press twice (1 second interval) to switch to unmanaged state
PoE & Power Supply	
PoE Port	Port 1-8
PoE Management	Port PoE output on/off, Port PoE real-time power view
Power Supply Pin	1/2 (+) 3/6 (-)
Max Power Per Port	4 Ports having 60W and Balance 4 Ports 30W, IEEE 802.3af/at/bt P-2
Power Consumption	Standby<8W, Full load af<120W, at<240W
Power Input Port	DC48-57V, 5P industrial Phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply
Physical Parameter	
Operation Temp/ Humidity	-20°C~+75°C, 5%~90% RH Non condensing
Storage Temp/ Humidity	-20°C~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	145*134.5*47mm
Net /Gross Weight	0.75kg/ 1.0kg
Installation	Desktop, 35mm DIN Rail P-3
Certification & Warranty	

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Lightning Protection	Protection level: IP40 Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHz) FCC Part 15/CISPR22 (EN55022): Class B IEC61000-6-2 (Common Industrial Standard) 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 IEC61000-4-4(EFT): Power cable:±4kV, Data cable: ±2kV IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m, 1s-3s IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27 (Anti Shock), IEC60068-2-52 (Corrosion and Salt Fog), IEC60068-2-60 (Mixed Gas)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS, certified by MTCTE, TEC
Warranty	5 years, lifelong maintenance.
Network Management Feature	
Interface	EEE Energy-saving and green Ethernet function, tested and certified for EAL 3 / NDPP Port traffic statistics, IEEE 802.3x flow control (Full-duplex), Port status display, Port duplex/ negotiation rate configuration, Trusted Platform Module (TPM) functionality
VLAN	Port-based IEEE802.1Q VLAN configuration (4K)
Port Aggregation	Static aggregation
Loop Protection	Loop protection function
Multicast	IGMP Snooping v1/v2, Max 256 multicast groups
Application Visibility & Traffic Analytics	The switch is having advanced application visibility and traffic monitoring capabilities to enhance network intelligence and performance analysis with industry-standard flow technologies such as NetFlow, sFlow, or J-Flow.
Port Mirroring	Bidirectional data mirroring based on port
QoS	Diff-Serv QoS, Priority Mark/ Remark 8*Output queues of each port, 802.1p/DSCP priority mapping
Network Protocol & Management	The switch is having essential networking and management protocols including DHCP, Auto Negotiation, LACP, UDLD, MDIX, GVRP/VTP, TFTP, and NTP. It also offer advanced capabilities such as per-port broadcast and multicast control, unicast storm control, static routing, Layer 2 trace route, and both IPv4 and IPv6 traceroute to ensure reliable, manageable, and resilient network operations.

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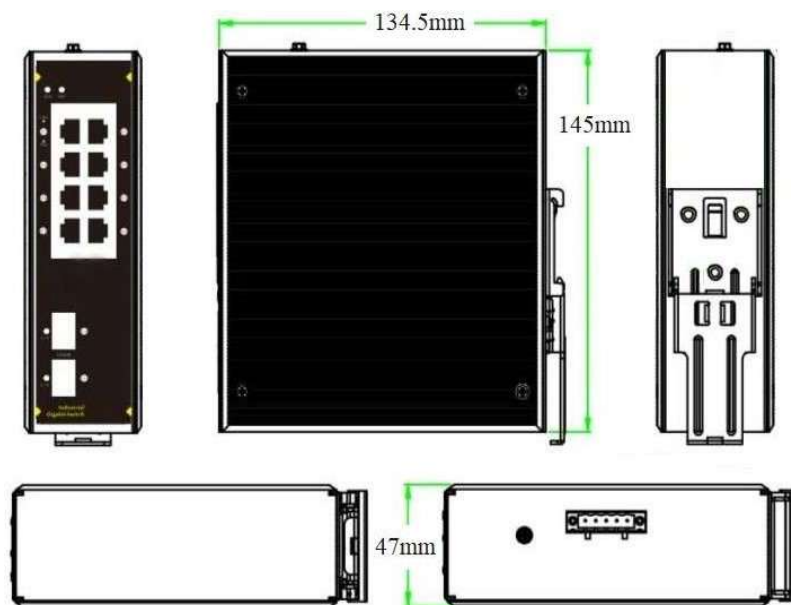

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10-Port Full Gigabit Managed Industrial PoE Switch (ATRO-IPS53108PFM)

Layer 3 Functionality	The switch support comprehensive Layer 3 routing features from Day 1, including Static Routing, RIP, PIM (Protocol Independent Multicast), OSPF (Open Shortest Path First), and Policy-Based Routing (PBR). Additionally, the switch also support Quality of Service (QoS) features such as IEEE 802.1p Class of Service (CoS), traffic classification, policing, and shaping.
Security	Broadcast storm control, Port isolation, Port speed limit
DHCP	DHCP Snooping
Management	Mobile APP operation and maintenance management, One-key recovery, Cable Diagnose, Web Management (https), ATRO-NMS platform management (Local platform/ Cloud platform)
Advanced Network Security & Control Features	The switch is having control capabilities to ensure robust protection, secure communication, and network stability. It is IPv6 logo ready from Day 1, MACSec and GRE tunneling protocols, and P-4 control plane policing to safeguard the CPU against DoS attacks. Additionally, having features like STP BPDU protection, STP Root Guard, and CPU protection mechanisms for preventing unauthorized topology changes and ensuring protocol integrity. Real-time traffic classification and prioritization for optimal performance of latency-sensitive applications.
System	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Cat5 and above Ethernet cable TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, Mac OS X) installed on each computer in the network Cat5 and above Ethernet cable

DIMENSION



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ORDERING INFORMATION

Model	Description	Recommended Power Supply
ATRO-IPS53108PFM	Easy managed industrial PoE switch with 8*10/100/1000M RJ45 ports and 2*10G uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at/bt PoE & POE+ standard. It can support dual DC power supply input and DIN rail mounting.	120W/240W

Note: The optical module and power supply are not included and need to be purchased.

PACKING LIST

Packing List	Content	Qty	Unit
	10-port gigabit Easy managed industrial PoE switch	1	SET
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
1.25G Optical Module	2630-G	Industrial SFP optical module, 10G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, supports DDM function and hot plugging.	PC
	2632-G	Industrial SFP optical module, 10G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC
	2612-T-G	Industrial SFP optical module, 10G single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC

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	2613-R-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC
	2612-T-SC-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.	PC
	2613-R-SC-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.	PC

POWER SUPPLY

Product	Model	Description	Unit
110W Desktop Power Adapter	GWS-AP110-52	Desktop 110W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 2.0A Output Voltage: DC52V, 2.15A Operation Temperature: -20°C to +65°C	PC
250W Desktop Power Adapter	GWS-AP250-52	Desktop 250W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 5.0A Output Voltage: DC52V, 5.0A Operation Temperature: -20°C to +65°C	PC
120W DIN Rail Industrial Power Supply	GWS-DP120-48	DIN Rail 120W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC48V, 2.5A Operation Temperature: -40°C to +70°C	PC
240W DIN Rail Industrial Power Supply	GWS-DP240-48	DIN Rail 240W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 3.0A Output Voltage: DC48V, 5.0A Operation Temperature: -40°C to +70°C	PC

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10-Port Full Gigabit Managed Industrial PoE Switch (ATRO-IPS33148PFM)

RELATED PRODUCTS

Model	Description
ATRO-IPS53064PFM	Easy managed industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*10G uplink SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at/bt PoE standard. It can support dual DC power input and DIN Rail mounting.
ATRO-IPS53064PFGM	Easy managed industrial PoE fiber switch with 5*10/100/1000M RJ45 ports and 1*100/1000M uplink SFP fiber port. Port 1-4 can support IEEE 802.3 af/at/bt PoE standard. It can support dual DC power input and DIN Rail mounting.

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