**Switches**
**PRODUCT INFORMATION**

**AT-IFS802SP/POE (W)**
8-port Industrial Managed POE Switch

8-port 10/100TX Industrial Managed PoE Switch with two SFP combo ports

**Performance**
The AT-IFS802SP/POE (W) is a high performance and cost-effective industrial managed switch that meet the high reliability requirements of industrial network operations.

The industrial switch provides a network manager some key features using the simple web-based management function such as: port-based VLANs, IEEE 802.1p QoS, port trunking/link aggregation, port mirroring, priority queues and IEEE 802.1x security support. With support of up to 8k MAC addresses and a 1Mbit packet buffer the AT-IFS802SP/POE (W) switch is an ideal option for integrating management into your network solution.

**Securing the Network Edge**
To ensure the protection of your data, it is important to control access to your network. Protocols such as IEEE 802.1x port-based authentication guarantee that only known users are connected to the network. Unknown users who physically connect can be isolated to a pre-determined part of your network offering guests such benefits as Internet access while ensuring the integrity of your private network data.

**Gigabit and Fast Ethernet SFP Support**
The SFP Ports support both Gigabit and Fast Ethernet Small Form-factor Pluggables (SFPs). This makes the switch an ideal family for environments where Gigabit fiber switches will be phased in over time. This allows for connectivity to the legacy 100FX hardware until it is upgraded to Gigabit. Support for both speeds of SFPs allows organizations to stay within budget as they migrate to faster technologies.

**High Network Resiliency**
The AT-IFS802SP/POE (W) industrial switch supports the X-Ring protocol that can help the network recover from connection failure within 20ms, thus making the network system very resilient. The X-Ring algorithm is similar to spanning tree protocol (STP) algorithm but its recovery time is faster than STP. In addition, Dual Homing and Couple Ring Topology are also supported to further increase the network availability.

**Key Features**
- 5.6Gbps Switching capacity
- Supports 100/1000Mbps SFPs
- Up to 8K MAC address table
- 48 VDC Redundant power inputs
- IP-30 Metal Case
- Support X-Ring function
- SNMP v1/v2c/v3, Web, Telnet, CLI Management
- TFTP firmware update, system configure restore and backup
- Provides standards-based IEEE 802.3af
- Power over Ethernet upto 8 ports of class 3 powered devices at 15.4 watts. Alternative A mode
- Ingress Packet Filter and Egress Packet Limit
Specifications

Ethernet Communications
- Standard
- IEEE 802.3, 10Base-T Ethernet
- IEEE 802.3u, 100Base-TX/FX
- IEEE 802.3ab, 1000Base-T
- IEEE 802.3z, Gigabit Fiber
- IEEE 802.3ad, LACP
- IEEE 802.3x, Flow Control and Back Pressure
- IEEE 802.3af, Power over Ethernet (Mode A)
- IEEE 802.1d, Spanning Tree
- IEEE 802.1p, Class of Service
- IEEE 802.1Q, VLAN Tag
- IEEE 802.1x, User Authentication (Radius)
- IEEE 802.1ab, LACP
- IEEE 802.1ad

Port Connector
- 10/100TX: RJ-45 x 8
- SFP Combo: RJ-45 x 2
- 100/1000 SFP x 2
- Console port: RJ45 x 1

Performance
- Wire-speed forwarding rate
  - 14,880pps for 10Mbps Ethernet
  - 148,880pps for 100 Mbps Ethernet
  - 1,488,000 pps for 1000 Mbps Ethernet
- MAC Address: 8K
- Packet Buffer: 1Mbits
- DRAM: 32Mbytes
- Flash ROM: 4Mbytes
- Switching Fabric: 5.6Gbps
- Forwarding Rate: 4.16Mpps

Management
- Configuration: SNMP v1/v2c/v3, Telnet, CLI
- VLAN: Port Based VLAN up to 256 entries
- IEEE 802.1Q Tag VLAN (256 entries)
- VLAN ID: Up to 4K, VLAN ID can be assigned from 1 to 4094.
- GVRP up to 256 Groups
- Redundancy: X-Ring, Dual Homing and Couple Ring, IEEE 802.1d STP and IEEE 802.1w RSTP
- Security: IP Access security, port security, DHCP Server, IP Binding per Port, IEEE 802.1x Port Access Control
- Traffic Control: IGMP Snooping/ Query for multicast group management, multi-cast filter
- Port trunking, Static IEEE 802.1p QoS/
- CoS/Tos/DSAP priority queuing, IEEE 802.3x flow control
- Diagnostics: Port Mirroring, LLDP, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-mail Alert, SNMP Trap, RMON

Power
- Power consumption: 142.5 Watts@48V (Full load)
- Power Input: support for up to 8 class 3 powered devices at 15.4 watts
- Power Connector: 6 poles terminal block x 1
- Relay Output: 1A @ 24VDC

Environment
- Operating Temperature: -40 ~ 75 °C (-40 ~ 167 °F)
- Storage Temperature: -40 ~ 85°C (-40 ~ 185°F)
- Humidity Operating: 5 to 95 %
- Humidity Storage: 5 to 95 %
- MTBF: Greater than 100288 hours

General
- LED Indicators: System: Power, Power 1, Power 2, Fault, Master
- Port Trunking: Link/Activity, FDX/COL
- Gigabit Copper: Link/Activity

Technical Specifications

Physical Characteristics
- Dimensions: 7.2cm x 11.5cm x 15.2cm
- Weight: 2.8” x 4.5” x 6.0”
- Weight: 1.42kg (3.2lbs)
- EMI: IP-30, Metal with aluminum shell
- Installation: DIN-rail/Wall Mount Design

Certification
- Safety: UL, cUL, CE/EN600950-1, C-Tick
- EMC: CE, FCC Class A
- EN61000-6-4
- EN61000-6-2
- EN61000-4-2 (ESD)
- EN61000-4-3 (Radiated RFI)
- EN61000-4-4 (Burst)
- EN61000-4-5 (Surge)
- EN61000-4-6 (Induced RFI)
- EN61000-4-8 (Magnetic Field)
- Shock: IEC60068-2-27
- Freefall: IEC60068-2-32
- Vibration: IEC60068-2-6
- Environment Compliance: RoHS compliant
- WEEE: China RoHS compliant

Ordering Information

AT-IFS802SP
8 10/100TX + 2 10/100/1000T/SFP Combo Managed Industrial Switch

AT-IFS802SP/PoE (W)
8 10/100TX + 2 10/100/1000T/SFP Combo Web Wide Operating Temperature (-40°C ~ 75°C) Managed Industrial Switch