

## AT-IFS802SP

### INDUSTRIAL MANAGED SWITCH

The Allied Telesis AT-IFS802SP is a high performance and cost-effective industrial managed switch that meets the high reliability requirements of industrial network operations. The AT-IFS802SP features eight 10/100TX ports and an additional two SFP combo ports.

This industrial switch provides key features for the network manager using simple web-based management functions, including port-based VLANs, IEEE 802.1p QoS, port trunking/link aggregation, port mirroring, priority queues, and IEEE 802.1x security support. With support for up to 8k MAC addresses and a 1Mbit packet buffer, the AT-IFS802SP 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 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 ideal for connectivity to 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

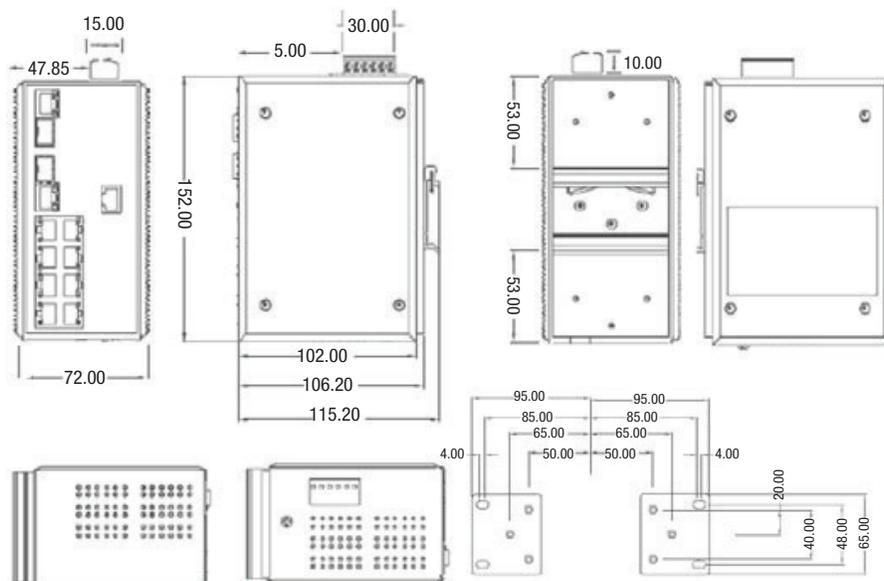
The Allied Telesis AT-IFS802SP industrial switch supports the X-Ring protocol, which provides resiliency by recovering



### Key Features

- » 5.6Gbps switching capacity
- » Supports 100/1000Mbps SFPs
- » Up to 8K MAC address table
- » 12–48 VDC redundant power inputs
- » IP-30 metal case
- » Supports X-Ring function
- » SNMP v1/v2c/v3, Web, Telnet, CLI Management
- » TFTP firmware update, system configure restore and backup
- » Ingress Packet Filter and Egress Rate Limit

from connection failure within 20ms. The X-Ring algorithm is similar to the Spanning-Tree Protocol (STP) algorithm, but its recovery time is faster than STP. In addition, Dual Homing and Couple Ring Topology are also supported, further increasing network availability.



## Specifications

### Interface

|              |                             |
|--------------|-----------------------------|
| I/O port     | 10/100TX: RJ-45 × 8         |
| SFP Combo    | RJ-45 × 2, 100/1000 SFP × 2 |
| Console port | RJ-45 × 1                   |

### Performance

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

### LED Indicators

|                |  |
|----------------|--|
| System         | Power<br>Power 1<br>Power 2<br>Fault<br>Master |
| 10/100TX       | Link/Activity<br>FDX/COL                       |
| 10/100TX       | Link/Activity<br>Speed                         |
| Gigabit Copper | Link/Activity                                  |

### Management

|                 |  |
|-----------------|--|
| Configuration   | SNMP v1/v2c/v3, Web, Telnet, CLI   |
| VLAN            | Port-based VLAN up to 256 entries<br>IEEE 802.1Q Tag VLAN (256 entries)<br>VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4094)<br>GVRP up to 256 groups |
| Redundancy      | X-Ring<br>Dual Homing and Couple Ring<br>IEEE 802.1d STP<br>IEEE 802.1w RSTP   |
| Security        | IP Access security<br>Port security<br>DHCP server<br>IP binding per port<br>IEEE 802.1x Port Access Control   |
| Traffic Control | IGMP Snooping/Query for multicast group management<br>Multicast filter port trunking<br>Static IEEE 802.1p QoS/CoS/DSCP priority queuing                       |
| Diagnostics     | IEEE 802.3x flow control<br>Port mirroring<br>LLDP<br>Real-time traffic statistics<br>MAC address table<br>SNTP<br>Syslog<br>Email alerts<br>SNMP trap<br>RMON |

### Standards and Compliance

|              |                                |
|--------------|--------------------------------|
| 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 802.3ad | Port Trunk with LACP           |
| IEEE 802.1d  | Spanning-Tree                  |
| IEEE802.1w   | Rapid Spanning-Tree            |
| IEEE 802.1p  | Class of Service               |
| IEEE 802.1Q  | VLAN Tag                       |
| IEEE 802.1x  | User Authentication (RADIUS)   |
| IEEE 802.1ab | LLDP                           |

### Power Characteristics

|                 |                             |
|-----------------|-----------------------------|
| Consumption     | 8.084 Watts at 48V          |
| Power input     | 12~48VDC<br>Redundant power |
| Power connector | 6 poles terminal block      |
| Relay output    | 1A at 24VDC                 |

### Environmental Specifications

|                    |                                |
|--------------------|--------------------------------|
| Operating temp.    | -10°C to 65°C (14°F to 149°F)  |
| Storage temp.      | -40°C to 85°C (-40°F to 185°F) |
| Operating humidity | 5% to 95% non-condensing       |
| Storage humidity   | 5% to 95% non-condensing       |
| MTBF               | 272,761.3927 hours             |

### Physical Characteristics

|                        |  |
|------------------------|--|
| Enclosure              | Metal with aluminum shell                            |
| Protection class       | IP30   |
| Installation           | DIN rail or wall mount                               |
| Dimensions (W × H × D) | 7.2 cm × 11.5 cm × 15.2 cm<br>2.8 in × 4.5 in × 6 in |

### Electrical/Mechanical Approvals

|           |   |
|-----------|---|
| Safety    | UL<br>cUL<br>CE/EN60950-1<br>C-Tick   |
| EMC       | CE, FCC Class A<br>EN61000-6-4<br>EN61000-6-2<br>EN61000-4-2 (ESD)<br>EN61000-4-3 (Radiated RFI)<br>EN61000-4-4 (Burst)<br>EN61000-4-5 (Surge)<br>EN61000-4-6 (Induced RFI)<br>EN61000-4-8 (Magnetic Field) |
| Shock     | IEC60068-2-27   |
| Freefall  | IEC60068-2-32   |
| Vibration | IEC60068-2-6  |

### Environmental Compliance

RoHS, WEEE

## Ordering Information

### AT-IFS802SP

8 × 10/100TX ports and 2 × 10/100/1000T SFP  
Combo ports managed industrial switch

### AT-IFS802SP/PoE (W)

8 × 10/100TX PoE ports and 2 × 10/100/1000T SFP  
Combo ports, extended temperature managed industrial switch