

## FS200 Series

2 Port Fast Ethernet Speed/Media Converting Switch

## AT-FS20I-xx

2 port Fast Ethernet switch,
10/I00TX to IOOFX (ST), 2 km

## AT-FS202-xx

2 port Fast Ethernet switch,
10/100TX to 100FX (SC), 2 km

## AT-FS232-xx

2 port Fast Ethernet switch media converter I0/I00TX to IOOFX (SC), 2km

## AT-FS232/I-xx

2 port Fast Ethernet switch media converter $10 / 100 T X$ to 100 FX (SC), 15 km

## AT-FS232/2-xx

2 port Fast Ethernet switch media converter I0/I00TX to IOOFX (SC), 40km

## Extend Networks

The FS200 series switches are the ideal solution when the time comes to upgrade your traditional IOMbps Ethernet network or extend your I 00Mbps Fast Ethernet network. The FS200 series is designed to extend the distance of your network by converting Fast Ethernet data between twisted pair cabling and singlemode fiber-optic cabling. The AT-FS200 features a I00FX fiber-port and a 10/I00TX twisted-pair port. The fiber-optic port features an SC connector and an operating distance of 2 kilometers $(6,561$ feet) to 40 kilometers (24.9 miles) depending on the model. The twisted-pair port has an RJ-45 connector with a maximum operating distance of 100 meters (328 feet).

## VLAN Support

Many new backbone switch products now support the industry standard IEEE 802.IQ specification for Virtual LANs (VLANs) that send extra-long data packets on the network. The FS200 switches are fully compatible with these long packets, enabling them to be used in modern networks. Switches not supporting this feature will discard these extra long packets, making them unsuitable for modern networks.

## Small and Flexible

The small size and external power supply of the FS200 series allows them to be used almost anywhere. Additionally, they can be mounted in a chassis along with Allied Telesis' media converters, allowing users to construct any mix of network conversions when they add the optional redundant power supply.

## MissingLink ${ }^{T M}$ and Smart

MissingLink ${ }^{\text {TM }}$ (SML)
The MissingLink feature allows the ports on the media converter to pass the Link status of their connections to each other. When the media converter detects a problem with a port - such as the loss of connection to a node - it shuts down the connection to the other port, thereby notifying the node that the connection has been lost. The Smart MissingLink (SML) feature monitors network connections and provides notification when network segments fails, allowing network managers to quickly identify the source and location of failed segments and minimize downtime.

## Key Features

- EnergyStar power adapters save customers a minimum of $20 \%$ power consumption*
- Convert speed as well as media type
- Auto MDI/MDI-X
- MissingLink (ML) (AT-FS232 only)
- Smart MissingLink (SML) (AT-FS232 only)
- Supports 1532 bytes frame
- Support for multi-mode and single-mode fiber
- Supports half and full-duplex operation
- 2k MAC address tables
- Store-and-forward switching mode
- Transparent to IEEE 802.IQ packets
- Standalone or rack-mountable
- Rack-mountable using optional AT-MCRI2, AT-TRAY4, or AT-TRAYI chassis
- Wall-mountable using AT-WLMT

* Compared to previous models

| AT-FS20I and AT-FS202 |  | Operational Mode |  |
| :---: | :---: | :---: | :---: |
| Status Indica | tors | MissingLink |  |
| System LEDs |  | Link Test |  |
| Power | Indicates power is applied to the converter |  |  |
|  |  | AT-FS232,AT-FS232/I and AT-FS232/2 |  |
| Per Fiber Port: |  | Status Indicators |  |
| Link/Activity | Indicates valid/invalid link | System LEDs: |  |
|  | Indicated data is being received or transmitted |  | Indicates power is applied to the converter |
| Full-duplex/Collision | Indicates operation at either full or half-duplex | Mode status | Indicates operating mode, MissingLink, Smart MissingLink and Link Test |
|  | Indicates collision during transmission on the port |  |  |
|  |  | Link | Indicates a valid receive link exists |
| Per Copper Port: |  | Duplex <br> Collision | Indicates full or half-duplex operation |
| Link/Activity | Indicates valid/invalid link Indicates data is being received or transmitted |  | Indicates collision during packet transmission on the port |
|  |  |  |  |
| Full-duplex/Collision | Indicates operation at either full or half-duplex <br> Indicates collision during transmission on the port | Per Copper Port: |  |
|  |  | Link | Indicates a valid receive link exists |
|  |  | Speed | Indicates either 10 or 100Mbps operation |
|  |  |  | Indicates port is set for auto-negotiation |
| Auto-negotiation | Indicates port is set for autonegotiation | FD/Collision | Indicates collision during packet transmission on the port |
| 100 M | Indicates operation at either IOT or IOOTX | Indicates full or half-duplex operation |  |
|  |  | Operational Characteristics <br> (Each port can be configured via the following switches) |  |
| Operational Characterisitcs <br> (Each port can be configured via the following switches) |  |  |  |  |
|  |  | Per Fiber Port: |  |
| Per Fiber Port: |  | Duplex | Selects either full or half-duplex |
| Duplex | Selects either full- or half-duplex operation |  | operation |
| Bytes | Selects maximum packet size sent by switch ( 1518 or 1522 bytes) | Per Copper Port: |  |
|  |  |  | Selects auto-negotiation mode or manual setting |
| Per Copper Port: |  | Duplex | Forces port to full or half-duplex |
| Auto | Selects auto-negotiation mode or manual setting |  | operation <br> (Auto setting = manual only) |
| Duplex | Forces port to full or half-duplex operation | Speed | Forces port to 10 or looMbps operation (Auto setting $=$ manual only) |
|  | (Auto setting = manual only) |  |  |
| Speed | Forces port to 10 or IOOMbps operation | MAC address table $2 k$ addresses |  |
|  | (Auto setting $=$ manual only) |  | 148,880 pps for 100Mbps |
| Bytes | Selects maximum packet size sent by switch (1518 or I522 bytes) | Latency | 14,880pps for 10 Mbps <br> $14.3 \mu \mathrm{sec}$ <br> (64 byte packet, IOOMbps full-duplex) |
|  |  |  |  |
| MAC Address Table 2 k addresses |  |  |  |
| Forwarding/Filtering Rate |  |  |  |
|  | 148,880pps for IOOMbps 14,880pps for IOMbps |  |  |
|  |  |  |  |  |  |
| Latency | $14.3 \mu \mathrm{sec}$ <br> (64 byte packet, IOOMbps full-duplex) |  |  |


Ordering Information
AT-FS20I-xx
2 port Fast Ethernet switch,
IO/IOOTX to IOOFX (ST), 2 km
AT-FS202-xx
2 port Fast Ethernet switch,
I0/I00TX to IOOFX (SC)
AT-FS232/y-xx
2 port Fast Ethernet switch media conver
I0/I00TX to I00FX (SC)
Where y = Multi-mode fiber 2 km
I single-mode fiber 15 km
2 single-mode fiber 40 km

Where $x x=10$ AC Power supply, US power cord 20 AC Power supply, European power cord 30 AC Power supply, UK power cord 40 AC Power supply, Australian power cord

## Associated Products

AT-MCRI2 12 slot $A C$ or DC powered chassis AT-TRAY4 Mounting tray for up to four devices AT-TRAYI Mounting tray for one device AT-WLMT Wall-mount for one device

