FS200 Series
2 Port Fast Ethernet Speed/Media Converting Switch

**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™ and Smart MissingLink™ (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 fail, 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 802.1Q packets
- Standalone or rack-mountable
- Rack-mountable using optional AT-MCR12, AT-TRAY4, or AT-TRAY1 chassis
- Wall-mountable using AT-WLMT

**Extend Networks**
The FS200 series switches are the ideal solution when the time comes to upgrade your traditional 10Mbps Ethernet network or extend your 100Mbps 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 single-mode fiber-optic cabling. The FS200 features a 100FX fiber-port and a 10/100TX 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 802.1Q 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.

* Compared to previous models
### FS200 Series | 2 Port Fast Ethernet Speed/Media Converting Switch

#### AT-FS201 and AT-FS202

**System LEDs**
- **Power**
  - Indicates power is applied to the converter

**Per Fiber Port:**
- **Link/Activity**
  - Indicates valid/invalid link
  - Indicates data is being received or transmitted
- **Full-duplex/Collision**
  - Indicates operation at either full or half-duplex
  - Indicates collision during transmission on the port

**Per Copper Port:**
- **Link/Activity**
  - Indicates valid/invalid link
  - Indicates data is being received or transmitted
- **Full-duplex/Collision**
  - Indicates operation at either full or half-duplex
  - Indicates collision during transmission on the port
- **Auto-negotiation**
  - Indicates port is set for auto-negotiation
- **100M**
  - Indicates operation at either 10T or 100TX

#### AT-FS232, AT-FS232/1 and AT-FS232/2

**System LEDs:**
- **Power**
  - Indicates power is applied to the converter
- **Mode status**
  - Indicates operating mode, MissingLink, Smart MissingLink and Link Test

**Per Fiber Port:**
- **Link**
  - Indicates a valid receive link exists
- **Duplex**
  - Indicates full or half-duplex operation
- **Collision**
  - Indicates collision during packet transmission on the port

**Per Copper Port:**
- **Link**
  - Indicates a valid receive link exists
- **Speed**
  - Indicates either 10 or 100Mbps operation
- **Auto**
  - Indicates port is set for auto-negotiation
- **FD/Collision**
  - Indicates collision during packet transmission on the port
  - Indicates full or half-duplex operation

#### Operational Characteristics

(Each port can be configured via the following switches)

**Per Fiber Port:**
- **Duplex**
  - Selects either full- or half-duplex operation
- **Bytes**
  - Selects maximum packet size sent by switch (1518 or 1522 bytes)

**Per Copper Port:**
- **Auto**
  - Selects auto-negotiation mode or manual setting
- **Duplex**
  - Forces port to full or half-duplex operation
  - (Auto setting = manual only)
- **Speed**
  - Forces port to 10 or 100Mbps operation
  - (Auto setting = manual only)
- **Bytes**
  - Selects maximum packet size sent by switch (1518 or 1522 bytes)

#### Operational Mode

- **MissingLink (ML)**
- **Link Test**

#### Power Characteristics

- **Input voltage (auto-ranging)**
  - External power supply 100-120V AC/60Hz, 220-240V AC/50Hz
- **Input supply voltage**
  - 12VDC +/- 5%
- **Max current**
  - 5
- **Power consumption**
  - 6W

#### Environmental Specifications

- **Operating temp.**
  - 0°C to 40°C
- **Storage temp.**
  - -20°C to 80°C
- **Relative humidity**
  - 5% to 95% non-condensing
- **Operating altitude**
  - 0 to 10,000 feet

#### Physical Characteristics

- **Dimensions**
  - 10.5cm x 9.5cm x 2.5cm
  - (4.12” x 3.75” x 1.0”)
- **Weight**
  - 0.7lb

#### Electrical/Mechanical Approvals

- **EMC**
  - FCC Class A
- **Safety**
  - UL-Cul, CSA/CSA, NRTL, TUV, CE compliant

### Ordering Information

- **AT-FS201-xx**
  - 2 port Fast Ethernet switch, 10/100TX to 100FX (ST), 2km
- **AT-FS202-xx**
  - 2 port Fast Ethernet switch, 10/100TX to 100FX (SC)
- **AT-FS232/y-xx**
  - 2 port Fast Ethernet switch media converter 10/100TX to 100FX (SC)

**Where y =**
- Multi-mode fiber 2km
- Single-mode fiber 15km
- Single-mode fiber 40km

**Where xx =**
- 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-MCR12**
  - 12 slot AC or DC powered chassis
- **AT-TRAY4**
  - Mounting tray for up to four devices
- **AT-TRAY1**
  - Mounting tray for one device
- **AT-WLMT**
  - Wall-mount for one device