Datasheet | Switches

Allied Telesis™

FS200 Series
2 Port Fast Ethernet Speed/Media Converting Switch

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), 2km

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

AT-FS232/1-xx
2 port Fast Ethernet switch media converter 10/100TX to 100FX (SC), 15km

AT-FS232/2-xx
2 port Fast Ethernet switch media converter 10/100TX to 100FX (SC), 40km

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.

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 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 802.1Q packets

- Standalone or rack-mountable

- Rack-mountable using optional AT-MCR12, AT-TRAY4, or AT-TRAY1 chassis

- Wall-mountable using AT-WLMT
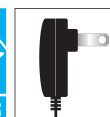
Powered by an ENERGY STAR® qualified adapter for a better environment

* Compared to previous models

FS200 Series | 2 Port Fast Ethernet Speed/Media Converting Switch

AT-FS201 and AT-FS202
Status Indicators
System LEDs
Power | Indicates power is applied to the converter

Per Fiber Port:
Link/Activity | Indicates valid/invalid link
Indicated 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

Operational Characterisitcs
(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)

MAC address table | 2k addresses
Forwarding/Filtering Rate
148,880pps for 100Mbps
14,880pps for 10Mbps
Latency | 14.3 µ sec
(64 byte packet, 100Mbps full-duplex)

Operational Mode
MissingLink (ML)
Link Test

AT-FS232, AT-FS232/1 and AT-FS232/2
Status Indicators
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

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)

MAC address table 2k addresses
Forwarding/filtering rate
148,880pps for 100Mbps
14,880pps for 10Mbps
Latency | 14.3 µ sec
(64 byte packet, 100Mbps full-duplex)

Operational Mode
MissingLink (ML)
Smart MissingLink (SML)
Linktest

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
1 single-mode fiber 15km
2 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

Connecting The (IP) World

Allied Telesis