

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Allied Telesis AT-FS201* at our website: ***Click HERE***

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

AT-FS238
2-port single strand fiber media converter, 10/100TX (RJ-45) to 100FX (SC), (1310nm TX/1550nm RX) or (1550nm TX/1310nm RX) with distances up to 15km

Extend Networks

FS200 Series switches are the ideal solution when the time comes to upgrade a traditional 10Mbps Ethernet network or extend a 100Mbps Fast Ethernet network. The FS200 Series is designed to extend the distance of the 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).

The Allied Telesis AT-FS238 media converter is a 10/100Mbps copper to single-mode fiber media converter which can send and receive on single strand fiber (1310nm TX/1550nm RX) or (1550nm TX/1310nm RX). These units are designed to be used in pairs in a network topology to provide point-to-point access. The AT-FS238 converts 10/100TX (RJ-45) to 100FX (SC) and will transmit up to 15km on high quality fiber optic cable. Both ports feature full- and half-duplex operation. The AT-FS238 is easy to install and does not require software configuration or management.

Additionally, it can be used almost anywhere due to its small physical size, choice of external power supplies and rack-mounting options.

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. FS200 Series 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 fail, allowing network managers to quickly identify the source and location of failed segments and minimize downtime.

Key Features

- 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-WLM
- DIP switches for port configuration

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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 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)

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

Operational Mode

MissingLink (ML)
Smart MissingLink (SML)
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 (32°F to 104°F)
Storage temp.	-20°C to 80°C (-4°F to 176°F)
Relative humidity	5% to 95% non-condensing
Operating altitude	0 to 10,000 feet

Physical Characteristics

Dimensions (W × H × D)	10.5 cm × 9.5 cm × 2.5 cm 4.12 in × 3.75 in × 1.00 in
Weight	0.7 lb

Electrical/Mechanical Approvals

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

AT-FS238

Status Indicators

System LEDs

Power	Indicates power is applied to the converter

Per Fiber Port:

Link	Indicates a valid receive link exists
Duplex	Indicates full- or half-duplex operation
Collision	Indicates collision during packet

Per Copper Port:

Link	Indicates a valid receive link exists
Speed	Indicates either 10Mbps 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

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)

Operational Mode

MissingLink (ML)
Smart MissingLink (SML)
Link Test

Packet buffer	28k per port
MAC address table	8k addresses
Forwarding/filtering rate	148,880pps for 100Mbps 14,880pps for 10Mbps
Latency	14.3µsec (64 byte packet, 100Mbps full-duplex)

Power Characteristics

Input supply voltage	12vDC or 12-50vDC
Rated currents	.5A maximum
Power consumption	24W maximum

Environmental Specifications

Storage temp.	-20°C to 70°C (-4°F to 158°F)
Operating altitude	Up to 3,048 feet

Physical Characteristics

Weight	294 g (10.4 oz)

Electrical/Mechanical Approvals

CE	IEEE 802.3, IEEE 802.3u
Safety	UL60950 (cULus), EN60950, EN60825 (TUV)
Emission	FCC Part 15 Class B, EN55022 Class B
Immunity	EN55024

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com









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)

AT-FS238A/1-10
2-port single strand fiber media converter, 10/100TX (RJ-45) to 100FX (SC) (1310nm TX/1550nm RX) with
12vDC power supply and distances up to 15km

AT-FS238B/1-10
2-port single strand fiber media converter, 10/100TX (RJ-45) to 100FX (SC) (1550nm TX/1310nm RX) with
12vDC power supply and distances up to 15km

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

North America Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895
Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830
EMEA & CSA Operations | Incheonweg 7 | 1437 EK Rozenburg | The Netherlands | T: +31 20 7950020 | F: +31 20 7950021

alliedtelesis.com

© 2016 Allied Telesis, Inc. All rights reserved. Information in this document is subject to change without notice. All company names, logos, and product designs that are trademarks or registered trademarks are the property of their respective owners.
617-000342 RevL

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP