Media Conversion

AT-FS232
2 Port Fast Ethernet Speed/Media Converting Switch with Smart Missing Link ™ (SML)

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Extend networks

When upgrading your traditional 10Mbps Ethernet network or extending your 100Mbps Fast Ethernet network, switches are required and the AT-FS232 provides an ideal solution. The AT-FS232 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 AT-FS232 features a 100FX fiber port and a 10/100TX twisted pair port. The fiber optic port has an SC connector and an operating distance of 2 kilometers (6,561 feet) to 90 kilometers (55.8 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 VLANs (Virtual LANs), which requires extra long data packets to be sent on the network. The AT-FS232 switch has been designed to be fully compatible with these long packets, allowing them to be used in modern networks. Switches not supporting this feature will discard the extra long packets, making them unsuitable for modern networks.

Small & flexible

The AT-FS232 can be used almost anywhere due to its small physical size and external power supply. Alternatively, it can be mounted in a chassis along with Allied Telesyn's media converters. This allows users to construct any mix of network conversions, with the additional option of a redundant power supply.

Smart missing link™ (SML)

The Missing Link 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 one of the ports, such as the loss of connection to a node, it shuts down the connection to the other port, thus notifying the node that the connection has been lost. The AT-FS232 also features Smart Missing LinkTM (SML). This feature monitors network connections and provides notification if a network segment fails. This allows network managers to quickly identify the source and location of a failed segment and minimize downtime.

About Allied Telesyn

Allied Telesyn leads the world in network technologies for the access edge. Since the company's inception in 1987, Allied Telesyn has been developing IP-based network products for use in video, voice and data networks at the metro edge, in education, government agencies and across the enterprise. Allied Telesyn's access, aggregation and core transport technologies range from simple Ethernet adapters, hubs and media converters to robust multi-layer Gigabit Ethernet switches and routers, wireless systems, DTM and WDM transport solutions for delivering real-time video, voice and data. Allied Telesyn's comprehensive support and professional service programs are suited to meet the growing demands of today's switched broadband infrastructures.

Service & Support

Allied Telesyn provides value-added support services for its customers under its Net.Cover® programs. For more information on Net.Cover® support programs available in your area, contact your Allied Telesyn sales representative or visit our website.

www.alliedtelesyn.com

Key features

- Convert speed as well as media type
- Auto MDI/MDIX
- Missing Link (ML)
- Smart Missing LinkTM (SML)
- Supports 1532 bytes frame
- Support for multi-mode & single-mode fiber
- Supports Half & Full Duplex operation
- 8k MAC address tables
- Store-and-forward switching mode
- Transparent to 802.1Q packets
- Standalone or rackmountable
- Fits the AT-MCR12 rackmount chassis

AT-FS232, 2 Port Fast Ethernet Speed/Media Converting Switch

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 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 duplex 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)

OPERATIONAL MODE

Missing Link (ML)
Smart Missing Link™ (SML)
Link Test

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 voltage (auto ranging)

External power supply	100-120vAC/60Hz, 220-240vAC/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% noncondensing
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-FS232/Y-XX

2 port Fast Ethernet switch media converter 10/100TX to 100FX (SC)

Where y = single-mode fiber
- 1 single-mode fiber 15km
- 2 single-mode fiber 40km
- 3 single-mode fiber 70km
- 4 single-mode fiber 90km

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

Only nature can do better

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