

## AT-MCF100 Series, Multi-Channel Fast Ethernet Media Converters

AT-MCF106 Family, 6 channel 100Mbps Fast Ethernet media converters

AT-MCF112 Family, 12 channel 100Mbps Fast Ethernet media converters



### KEY FEATURES

Fiber test switch

Plug-and-play installation

MissingLink  
integrity monitoring

Optional SNMP management

### DISTANCE AND RANGE

The Allied Telesyn AT-MCF106/AT-MCF112 range of media converters is a complete family of 6 and 12 channel 100Mbps manageable media converters, all housed in a single slim, 19" rackmountable unit. With a range of fiber connector styles for SC, ST, MT-RJ and VF-45 and supporting both multi-mode and single-mode fiber cabling, these media converters allow inter-connectivity of Fast Ethernet networks at distances of up to 40km.

### MANAGEMENT

The AT-MCF106/AT-MCF112 media converters can be installed as unmanaged devices, making them extremely cost-effective. All of the converters are easily upgradable with management in the field by the installation of a slide-in management module, the AT-MCM02.

### REDUNDANCY

All ports support the Allied Telesyn Missing Link™ feature, which allows the media converters to truly propagate Fast Ethernet 'Link' signals. Multiple channels on a media converter can therefore be used to provide resilient links to copper based switches supporting these features. For added security, all the media converters support an optional redundant internal power supply and both power supplies can be "hot" inserted and removed enabling zero down-time during maintenance.

### SIMPLE INSTALLATION

Designed for optimal use in managed networks, each port can independently operate with a managed port configured for either half or Full Duplex. Additionally, the Link test feature allows the user to check the operation of the installed fiber cable without the need for expensive test equipment or with other active components connected to the UTP channel ports on the media converter.

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## STATUS INDICATORS

### System LEDs (Main Chassis)

Power Green/Yellow - Dual, if RPS present  
Normal/Test Mode Green/Yellow - per each 6 channels

### Management Module LEDs

Link Green - Valid link on management UTP port  
Activity Green - RX on management UTP port  
Status Yellow - Indicates presence and proper operation of module

### Per Channel LEDs

Link FO Green - Valid link on fiber optic port  
Link TP Green - Valid link of UTP port  
Activity Yellow - RX data on the fiber optic port

## NETWORK MANAGEMENT

### RS232 Console Access

SNMP Proprietary MIB Extensions

## INTERFACE CONNECTIONS

100TX Shielded RJ45, configured as MDIX  
100FX MT-RJ or VF-45  
1000SX or LX Fiber SC  
RS232 9 Pin D

### Management Ports:

Mini DIN 4 Pin Female connector (RS232) setup/diagnostics  
Cable to RS232 (D-9) supplied  
with AT-MCM101 management module  
UTP Ports (2) Shielded RJ-45 10T, both MDI & MDIX (shared)

## OPERATIONAL CHARACTERISTICS

Fiber Wavelength 1310nm  
Fiber Output Power Multi-Mode devices  
-20dBm or better  
Single-Mode  
-20dBm or better (SM models - 15km);  
-5 dBm or better (LH models - 40km)  
Input Sensitivity -30dBm or better all models

## POWER CHARACTERISTICS

AC:  
Voltage 100-120/200-240 vAC  
Frequency 50-60Hz  
Power Consumption 35W maximum

## ENVIRONMENTAL SPECIFICATIONS

Operating Temp. 0°C to 40°C (32°F to 104°F)  
Non-operating Temp. -30°C to 65°C (-22°F to 149°F)  
Relative Humidity 90% max. noncondensing

## PHYSICAL CHARACTERISTICS

Dimensions 441mm x 265mm x 44mm  
(17.3" x 10.4" x 1.75")  
Weight 3.5kg (7lbs)  
Mounting 19" rackmountable or desktop hardware included

## STANDARDS AND COMPLIANCE

IEEE 802.3 10Mbps Ethernet

## ELECTRICAL/MECHANICAL APPROVALS

UL 1950 FCC Class A  
CSA 22.2 No.950 EN55022 Class A  
EN 60950 (TUV) EN50081-1  
VCCI Class B ICES Class B

## ORDERING INFORMATION

### AT-MCF106ST-xx

### AT-MCF112ST-xx

6/12 channel 100Mbps media converter,  
TX to multi-mode fiber (ST)

### AT-MCF106SC-xx

### AT-MCF112SC-xx

6/12 channel 100Mbps media converter,  
TX to multi-mode fiber (SC)

### AT-MCF112MT-xx

6/12 channel 100Mbps media converter,  
TX to multi-mode fiber (MT-RJ)

### AT-MCF112VF-xx

6/12 channel 100Mbps media converter,  
TX to multi-mode fiber (VF-45)

### AT-MCF106SM-xx

### AT-MCF112SM-xx

6/12 channel 100Mbps media converter,  
TX to single-mode fiber (SC), 15km

### AT-MCF106LH-xx

### AT-MCF112LH-xx

6/12 channel 100Mbps media converter,  
TX to single-mode long haul fiber (SC), 40km

Where xx =

10 for U.S. power cord  
20 for no power cord  
30 for U.K. power cord  
50 for Europe power cord  
80 for -48VDC power supply

AT-MCM02 Slide-in management module  
AT-PWR5 Redundant power supply  
AT-PWR7 -48VDC Redundant power supply

**Product Range:** Allied Telesyn's long-term focus on price/performance networking has made it a market-leading provider of LAN, WAN and MAN network systems. Advanced Layer 3 switch and router technology perfectly complements its traditional Layer 2 switch, hub, adapter card and media conversion capabilities.

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