

MC-100-C series

Universal Optical Media Converter/Repeater

Description

The MC-100-C universal media converters series provides transparent conversion of optical signals for ATM/SDH/SONET/Ethernet and other protocols at frequency up to 2.5 GHz and data rate up to 2500 Kbps. Different interfaces enable the MC-100-C to convert between any two optical media.

Two versions are available: standalone unit and plug-in card in Olencom's FM-S rack, in cases where a high density solution is needed.

MC-100-C series is ideal media converters and ATM/SDH/SONET/Ethernet repeaters. They allow carriers to connect two devices operating with dissimilar fiber interfaces: single mode (1310nm or 1550nm), multi mode (850 nm or 1310 nm).

A long haul option is available to provide increased range of the fiber link.

A WDM-based interface allows the MC-100-C to operate over single strand fiber optic cable. This enables to carrier to save the fiber infrastructure.

MC-100-C supports control and diagnostic features. LEDs

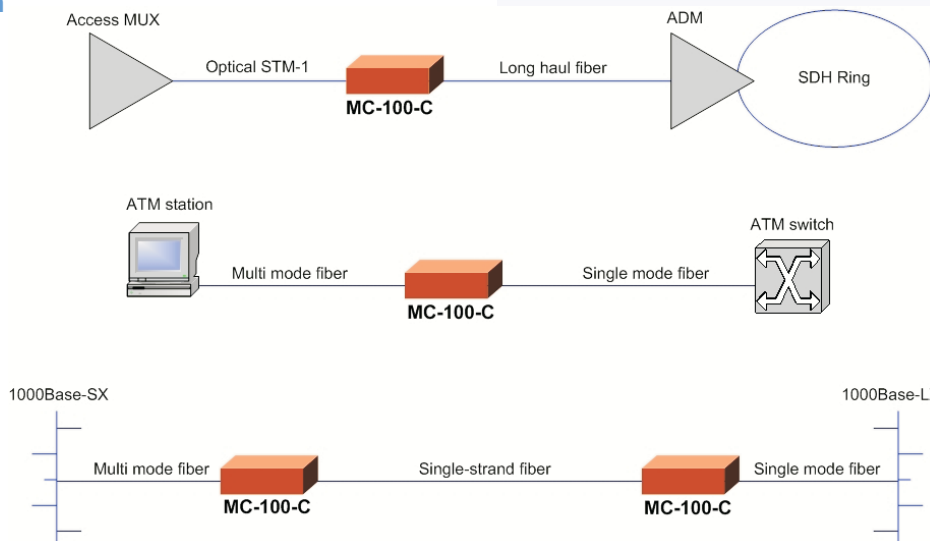


on the front panel provide status indication of each optical link. Besides, MC-100-C mounted into the FM-S chassis, can be managed remotely by Olencom SNMP management system.

Features

- ✓ Supports transparent conversion/repeating of fiber optic signals up to 2.5 GHz for:
 - ATM/SDH/SONET
 - Fast/Gigabit Ethernet
- ✓ Supports media types:
 - Single mode fiber (1310 nm and 1550 nm)
 - Multi mode fiber (850 nm and 1310 nm)
- ✓ Laser diode option for long distance connection
- ✓ Standalone and card versions
- ✓ WDM option for single fiber transmission

Application





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Product Specifications

Optical interface

Ports quantity	2
Protocols support	Transparent for Fast Ethernet/Gigabit Ethernet/ATM/SDH/SONET
Data rate	155Mbps/622Mbps/1250Mbps/2500Mbps
Output power	-8~-12dBm/0~-5dBm/0~+3dBm/+3~+5dBm
Wavelength	850nm/1310nm/1550nm
Fibers quantity per port	2/1(for WDM interface)
Fiber type	multi mode/single mode
Connector types	SC/LC

Physical/Electrical

Standalone version

AC power supply	100-240 VAC, 50-60Hz
DC power supply	36-72 VDC
Dimensions (HxWxD)	50mm x 115mm x 155mm
Wight	0.35 kg

FM-S6MC card version

Dimensions (HxWxD)	20mm x 65mm x 90mm
Wight	0.1 kg

FM-S2U card version

Dimensions (HxWxD)	88mm x 22mm x 90mm
Wight	0.1 kg

Environments

Temperature range	0° C to 70° C
Humidity	up to 95% without condensation

Ordering information

MC-100-C: F, P1: A1-B1-C1-D1-E1, P2: A2-B2-C2-D2-E2

F – mechanical construction:

AC – standalone with AC power supply 100-240V, 50-60Hz

DC – standalone with DC power supply 36-72V

6MC – card for rack FM-S 6MC

2U – module for rack FM-S 2U.

A1, A2 – connector type:

SC – SC connector

LC – LC connector

B1, B2 – fiber type:

MM – dual multi mode optical fiber

SM – dual single mode optical fiber

SO – single-strand single mode fiber

C1, C2 – wavelength (for **SO** – transmitter wavelength):

850 – 850nm,

1310 – 1310nm,

1550 – 1550nm.

D1, D2 – data rate:

155 – 155Mbit/s,

622 – 622Mbit/s,

1250 – 1250Mbit/s,

2500 – 2500Mbit/s.

E1, E2 – distance:

S1 or non-marked – standard distance

S2 – long distance

Note: contact vendor for special configuration

