



Universal Multi-Mode to Single-Mode Media Converter

Most of the high speed networking devices (such as ATM or Fast-Ethernet switches) are available with only multi-mode fiber-optic ports. Other devices - when offered with Single-Mode fiber interfaces are very expensive and not flexible in use.

The **U.CON** series provides the network designer with a flexible, cost effective and trouble-free tool for network extension.

The **U.CON** is an universal, protocol transparent device, converting digital signals ranging up to 155Mbps from multi-mode to single mode fibers and distances of up to 150km.

Being transparent, their deployment is easy and does not require any settings or measurements.

The device is protocol independent for the specified transmission speed however it is delivered qualified for the 2 most popular standards in this range: ATM/OC3 (U.CON1A) or 100Base-FX (U.CON1F).

Products may be ordered with both F/O ports Single-Mode fiber to be used as network extenders or wavelength converters.

The **U.CON** is housed in a compact yet rugged chassis allowing both desktop and shelf mounting and powered by a internal auto-ranging power supply. Certain models are available in 19" rack-mount with redundant power supplies.

Key Features

- **Easy Installation** - protocol independent, plug-and-play
- **Network extension** - up to 150km
- **Data Rate** - up to 155Mbps
- **Reliability** - internal PS (-48VDC PS optional)
- **Flexibility** - desktop, shelf (optional) or rack-mount installation

General Specifications

Standard Compliance

ATM-OC3
100Base-FX

Conversion Method

Protocol Transparent

Multi Mode Port

Double SC connector (ST optional)
1310nm, 62.5/125 (m fiber)
Output Power: -18dbm or better
Input Sensitivity: -32dbm or better

Single-Mode port

Double SC connector
1310nm, 9/125 μ m fiber
Output Power: -15/-11/-2 dbm min for 25/40/70km models respectively
Input Sensitivity: -33/-33/-35dbm or better
Other distances - see separate table

Diagnostics

Link - multi mode
Link - single mode
Power

Environmental and Physical

Power-Supply

Internal, 100 \pm 240 VAC, 50 \pm 60Hz

Power Consumption

5 Watts maximum

Operating Temperature

0 \pm +50 $^{\circ}$ C

Storage Temperature

-20 \pm +80 $^{\circ}$ C

Humidity

10 \pm 90% non-condensing

Safety

UL 1950:1995, EN 60950

EMC

FCC part 15, Subpart B, Class A; VCCI Class B;
ICES 003:1997, Class A; EMC Directive 89/336/EEC

Dimensions

120x170x40mm (4.7"x6.7"x1.6")

Weight

0.5 kg (1.1lb) max.

Ordering Information

U.CON1A	Multi-Mode to Single Mode ATM/OC3 Media Converter, 25km
U.CON1F	Multi-Mode to Single Mode Fast Ethernet Media Converter, 25km
U.CON1A-48	Multi-Mode to Single Mode ATM/OC3 Media Converter, 25km, -48VDC PS
U.CON1F-48	Multi-Mode to Single Mode Fast Ethernet Media Converter, 25km, -48VDC PS
U.CON1A/L	Multi-Mode to Single Mode ATM/OC3 Media Converter, 40km
U.CON1F/L	Multi-Mode to Single Mode Fast Ethernet Media Converter, 40km
U.CON1A/L2	Multi-Mode to Single Mode ATM/OC3 Media Converter, 70km
U.CON1F/L2	Multi-Mode to Single Mode Fast Ethernet Media Converter, 70km
U.CON1A2A/SMR7/LX	Single-mode 1310nm to Single-mode 1550nm 150km ATM/OC3, 19" rack with redundant PS
U.CON2A2A/SMR7/LX	Dual Channel Single-mode 1310nm to Single-mode 1550nm 150km ATM/OC3, 19" rack with redundant PS

Specifications subject to change without prior notice

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