Converters

U.CON

Universal Converter

Universal Multi/Single-Mode to Single-Mode Converter

The U.CON family products provide the network designer with a flexible, cost effective and reliable device for network extensions.
U.CON is a universal, protocol transparent device, converting digital signals ranging up to 622Mbps from multi-mode/single mode to single mode fibers covering distances 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 3 most popular standards in this range: ATM/OC3 (U.CON1A series), 100Base-FX (U.CON1F), and ATMOC12/STM-4 (U.CON622).

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 an 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 and 622Mbps
- **Reliability** - internal PS (optional internal -48VDC PS)
- **Flexibility** - desktop ,shelf (optional) or rack-mount installation

General Specifications

Standard Compliance
100Base-FX ,FDDI, ATM-OC3, STM-1, ATMOC12, STM-4

Multi Mode Port 100Base-FX/OC3
Duplex SC connectors (ST optional)
Multi-Mode 1310nm, Output Power: -18dBm
Input Sensitivity: -32Bbm
U.CON622 : Duplex SC
MM 1310nm - Out Power : -19dBm
Sensitivity: -28dBm

Diagnostic LEDs
SD: Signal Detect for MM/SM Rx port
SD: Signal Detect for SM Rx port
Power

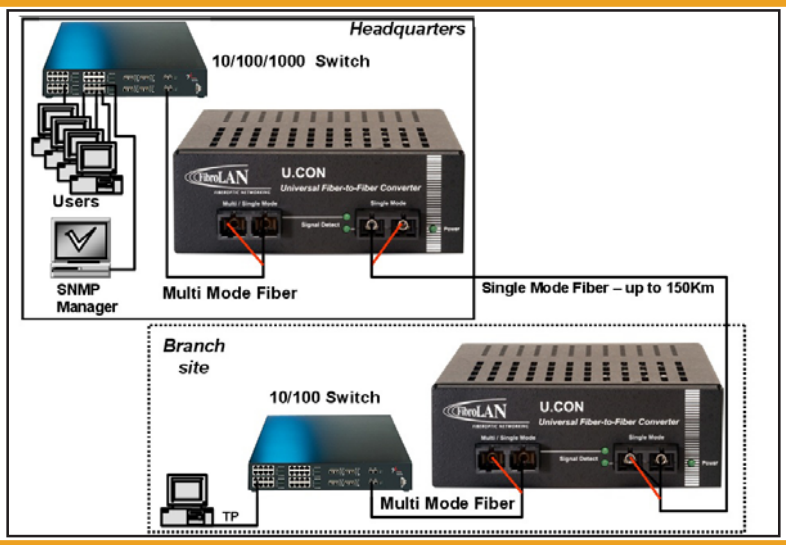
Conversion Method
Protocol Transparent

Single-Mode port-100Base-FX/OC3
Duplex SC connectors
1310nm, 9/125m fiber
Output Power:-20/ -15/-11/-2 dBm for 7/25/40/70km models respectively
Input Sensitivity:-30/-33/-33/-35 dBm
U.CON622: Duplex SC
SM 1310nm : 10/20/40/80 Km
Out Power: -10/-5/-3/0 dBm
Sensitivity: -23/-23/-23/-23 dBm

Converters

U.CON

Typical Topology



Environmental/Physical

Power-Supply
Internal, 100 to 240 VAC, 50-60Hz

Operating Temperature
0° to +45°C
Humidity:10% to 90% non-condensing

Safety
UL 60950, **EN** 60950

Dimensions
120x170x44mm

Power Consumption
5 Watts maximumt

Storage Temperature
-20° to +80° C

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

Weight
500 gram

Ordering Information

B152	U.CON1A/SMR7	MM to SM 1310nm ATM/OC3 Media Converter, 7km, 2* duplex SC
B080	U.CON1A	MM to SM 1310nm ATM/OC3 Media Converter, 25km, 2* duplex SC
B153	U.CON1F/SMR7	MM to SM 1310nm Fast Ethernet Media Converter, 7km, 2* duplex SC
B081	U.CON1F	MM to SM 1310nm Fast Ethernet Media Converter, 25km, 2* duplex SC
B082	U.CON1A-48	MM to SM 1310nm ATM/OC3, MC 25km, 2* duplex SC, internal -48VDC PS
B083	U.CON1F-48	MM to SM 1310nm Fast Ethernet, MC, 2*duplex SC,25km,internal -48VDC PS
B084	U.CON1A/L	MM to SM 1310nm ATM/OC3 Media Converter, 40km, 2* duplex SC
B085	U.CON1F/L	MM to SM 1310nm Fast Ethernet Media Converter, 40km, 2* duplex SC
B086	U.CON1A/L2	MM to SM 1310nm ATM/OC3 Media Converter, 70km, 2* duplex SC
B087	U.CON1F/L2	MM to SM 1310nm Fast Ethernet Media Converter, 70km, 2* duplex SC
B149	U.CON1A2AC/SMR7LX	SM fiber 7km 1310nm to SM fiber 150km 1550nm converter ATM/OC3, 2* duplex SC,19" 1U, dual redundant PS
B150	U.CON2A2AC/SMR7LX	Dual channel SM 7km 1310nm to SM 150km 1550nm converter ATM/OC3, 2* duplex SC ,19" 1U, dual redundant PS
B224	U.CON622	MM 1310nm to SM 1310nm ATM/OC12/STM-4 Media Converter, 2* duplex SC,20km
B225	U.CON622/SML	MM 1310nm to SM 1550nm DFB ATM/OC12/STM-4, Media Converter, 2* duplex SC, 40km
B226	U.CON622/SML2	MM 1310nm to SM 1550nm DFB ATM/OC12/STM-4, Media Converter, 2* duplex SC, 80km
B227	U.CON622/SM-SM	SM 1310nm 10km to SM 1310nm ATM/OC12/STM-4 extender, 2* duplex SC, 20km
B228	U.CON622/SM-SML	SM 1310nm 10km to SM 1550nm DFB ATM/OC12/STM-4 extender,2* duplex SC, 40km
B229	U.CON622/SM-SML2	SM 1310nm 10km to SM 1550nm DFB ATM/OC12/STM-4 extender, 2* duplex SC, 80km

Specifications are subject to change w/without prior notice

FibroLAN Ltd.
P.O.Box 544 Yoqneam-Illit, 20692 ISRAEL
Tel: +972-4-9591717,Fax: +972-49591718
www.fibrolan.com info@fibrolan.com

FibroLAN Inc.
350 W Passaic St.
Rochelle Park, NJ 07662
Toll free: (800) 406 6088
Tel: (201) 843 1626
Fax: (201) 843 1628
us-info@fibrolan.com

Studio Michal