Converters

U.CON

Universal Converter

Universal Multi/Single-Mode to Single-Mode Media 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 155Mbps 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 2 most popular standards in this range: ATM/OC3 (U.CON1A series), and 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 an internal auto-ranging power supply.

Key Features

Easy Installation - protocol independent, plug-and-play
Network extension - up to 150km
Data Rate - up to 155Mbps
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: -20dBm
Input Sensitivity: -30Bbm

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, 9/125µm fiber
Output Power:-20/ -15/-11/-3 dBm for 7/25/40/70km models respectively
Input Sensitivity:-30/-33/-33/-35 dBm

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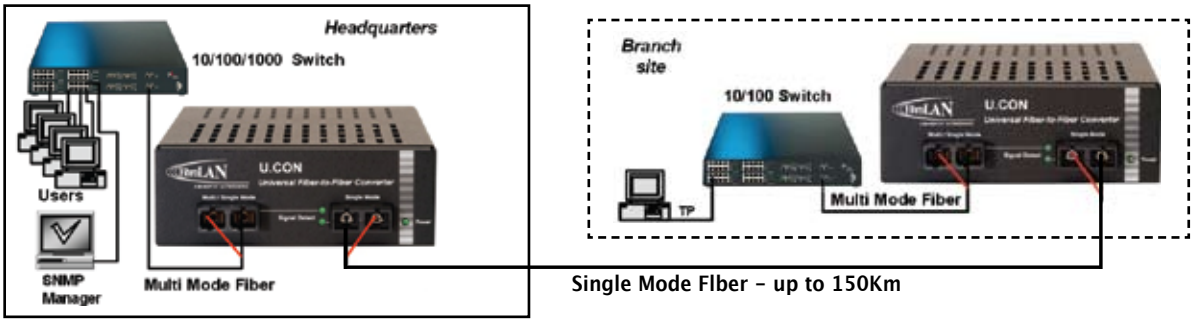
Typical Topology



Environmental/Physical

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

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

Safety: designed to meet
IEC-60950-1

Dimensions
120x170x44mm

Power Consumption
5 Watts maximum

Storage Temperature
-20° to +80° C

EMC: designed to meet
EN 300 386 V1.3.3

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
B305	U.CON1F/SMRF13	Multi-Mode to Single-Mode, Single Fiber Strand 1310nmTx/1550nm Rx, Fast Ethernet Media Converter, 20km, 1 duplex SC and 1 simplex SC connectors NR
B306	U.CON1F/SMRF15	Multi-Mode to Single-Mode, Single Fiber Strand 1550nmTx/1310nm Rx, Fast Ethernet Media Converter, 20km, 1 duplex SC and 1 simplex SC connectors NR
B097	PS48	DC (-36 to -72 V) Power supply (instead of AC power supply)
B151	CBPS-DC48V	DC Power Supply cable, 3m, PS48
B012	CTF-RM	19" Rack shelf for installation of up to 3 U.CON devices
B161	SCH-WM	Wall Mount kit for all single channel converters
B098	ETR	Extended Temperature Range (-10° to +70° C)
B267	ETRX	Extended Temperature Range (-25° to +70° C)

Specifications are subject to change w/o prior notice

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