

FlexPoint OC12FF Single-mode to Multimode Fiber Converters for OC-12

The FlexPoint OC12FF is a protocol-independent fiber converter that provides reliable and cost-effective extension of network distances by connecting multimode fiber networks or devices over single-mode fiber cabling.

No manual configuration is required with the plug-and-play FlexPoint OC12FF. Connect the fiber cables to the appropriate interface and the installation is complete.

The fiber port operates at 1310nm or 1550nm and features SC connectors. Multimode fiber models support distances of up to 550m, and single-mode fiber models support distances of up to 80km.

The FlexPoint OC12FF features descriptions of the LED indicators on the label for easy in-the-field installation and maintenance. The LEDs report the availability of power and the detection of devices attached to the fiber ports.

FlexPoint modules can be mounted utilizing optional wallmounting hardware or with DIN-rail mounting brackets. They can also be rack-mounted in a 5-Module shelf or in a high-density 14-Module, power-redundant Powered Chassis.

FlexPoint modules installed in the 5-Module shelf or used as standalone devices can be powered by an external AC to DC power adapter, or through the 5VDC chassis connector. Standalone modules can also be powered by attaching an external DC power supply (18-60VDC). When used in the 14-Module power-redundant Powered Chassis with any combination of AC and DC power supplies, the installed modules are powered via the 5VDC chassis connector.



KEY FEATURES

- The FlexPoint OC12FF single-mode to multimode protocol-independent fiber converter
- Supports all OC-12 standards over ATM and SONET
- Requires no manual configuration
- Supports auto-negotiation of duplex mode
- Extends network distances up to 80km
- Labeled status LEDs for quick and easy installation
- Wall-mount or rack-mount on a 5-Module shelf or in a 14-Module power-redundant FlexPoint Powered Chassis
- Completely software independent with no installation of drivers required
- Peace-of mind reliability backed by a lifetime warranty and free 24/7 technical support



The wide variety of FlexPoint mounting and power options provide flexible upgrade paths as network requirements change and grow.

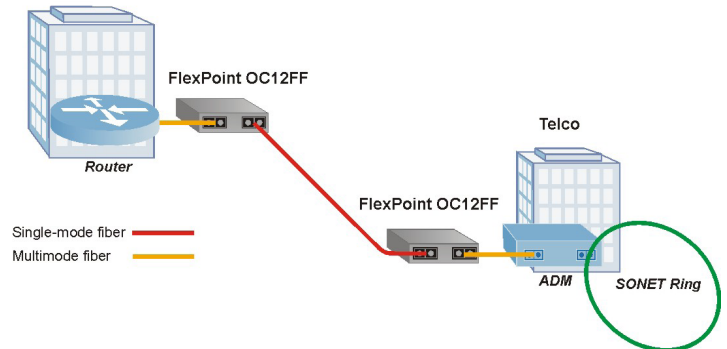
FlexPoint unmanaged media converters are easy to use and provide dependable fiber connectivity in Enterprise and Government networks around the world.

SPECIFICATIONS

Model Type	OC12FF		
Protocols	OC-12		
Fiber Cables	Multimode: 50/125, 62.5/125, 100/140µm Single-mode: 9/125µm		
Fiber Connectors	SC		
LED Displays	Power, Fiber Link/Activity		
Dimensions	W: 3.0" x D: 4.0" x H: 1.0"		
Weight	6 oz. (without power adapter)		
Compliance	UL, CE, FCC Class A		
Power Requirements	Nominal Voltage: Voltage Range: Power Nominal: Maximum Power:	Barrel Connector 9VDC 6.0 to 15.0VDC 0.2A @ 9VDC 1A @ 9VDC	Molex Connector 5VDC 4.75 to 5.25VDC 0.5A @ 5VDC 0.75A @ 5VDC
Temperature	0 to 50° C		
Humidity	5 to 95% (non-condensing)		
Altitude	-100m to 4000m		
MTBF (Hours)	Module without Power Adapter: 2,600,000 Module with Power Adapter -1: 250,000 Module with Power Adapter -2: 100,000		

APPLICATION EXAMPLES

The FlexPoint OC12FF fiber converter can extend the network across single-mode fiber with distances up to 80km. In this application, the customer's router is connected to an Add Drop Multiplexer (ADM) providing access to the SONET ring using a pair of FlexPoint OC12FF fiber converters. The converters provide the multimode to single-mode conversion.



ORDERING INFORMATION

Port	Fiber Type	Distance	Connector SC	Wavelength [nm]	Min. Tx Power (dBm)	Max. Tx Power (dBm)	Min. Rx Sensitivity (dBm)	Max. Rx Sensitivity (dBm)	Link Budget (dBm)
Port 1	MM	550m	4461-x	1310	-20	-14	-26	-14	6
Port 2	SM	12km		1310	-9.5	-3	-19.5	-3	10
Port 1	MM	550m	4463-x	1310	-20	-14	-26	-14	6
Port 2	SM	34km		1310	-5	0	-23	-3*	18
Port 1	MM	550m	4469-x	1310	-20	-14	-26	-14	6
Port 2	SM	80km		1550	-5	0	-26	-3*	18

Power Adapter Kits (-x): -0 = No power adapter included, -1 = 110-120 VAC/60 Hz (US plug), -2 = 100-240 VAC/50-60 Hz (IEC plug, no power cord)
Contact Omnitron for other fiber options and operational temperature ranges.
*When using these models in pairs, a minimum attenuation of 3dB is required.

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