

FlexPoint 1000FF

Single-mode to Multimode Fiber Converters for Gigabit Ethernet

The FlexPoint 1000FF 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 1000FF. Connect the fiber cables to the appropriate interface and the installation is complete.

The fiber port operates at 850nm, 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.

Descriptions of the LED indicators are provided 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 wall-mounting 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 1000FF is a single-mode to multimode protocol-independent fiber converter
- Plug-and-play installation requires no manual configuration
- Supports auto-negotiation of duplex mode
- Extends network distances up to 80km
- Supports most network interfaces with a wide variety of cable and connector types
- 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.

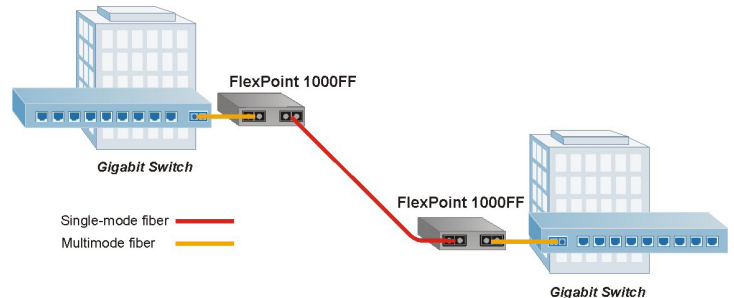
FlexPoint unmanaged media converters are easy to use and provide dependable fiber connectivity in Enterprise and Government networks around the world.

SPECIFICATIONS

Model Type	1000 FF		
Protocols	IEEE 802.3, 1000BASE-LX/SX		
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 EXAMPLE

The FlexPoint 1000FF fiber converter can extend the network across single-mode fiber with distances up to 80km. In this application, two Gigabit Ethernet switches are connected utilizing a pair of FlexPoint 1000FF fiber converters, which are connected to the switches via a multimode fiber uplink.



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	220 / 550m1	4432-x	850	-10	-4	-17	-3	7
Port 2	MM	220 / 550m1		850	-10	-4	-17	-3	7
Port 1	MM	220 / 550m1	4433-X	850	-10	-4	-17	-3	7
Port 2	SM	12km		1310	-9.5	-3	-19.5	-3	10
Port 1	MM	220 / 550m1	4440-x	850	-10	-4	-17	-3	7
Port 2	SM	34km		1310	-5	0	-23	-3*	18
Port 1	SM	12km	4434-x	1310	-9.5	-3	-19.5	-3	10
Port 2	SM	12km		1310	-9.5	-3	-19.5	-3	10
Port 1	MM	220 / 550m1	4437-x	850	-10	-4	-17	-3	7
Port 2	SM	80km		1550	-5	0	-23	-3*	18
Port 1	SM	12km	4441-x	1310	-9.5	-3	-19.5	-3	10
Port 2	SM	34km		1310	-5	0	-23	-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.

162.5/125µm, 100/140µm multimode fiber up to 220m. 50/125µm multimode fiber up to 550m. Refer to the fiber cable manufacturer for multimode distance specifications.