

FlexPoint™ 100FF

Fast Ethernet Fiber-to-Fiber Converter/Transponder

The FlexPoint 100FF is a Fast Ethernet fiber-to-fiber converter/transponder that provides reliable and cost-effective extension of network distances by connecting multimode fiber networks or devices over single-mode fiber cabling.

The FlexPoint 100FF is designed to operate with a constant rate signal between 1Mbps to 100Mbps allowing the converter to be used in Ethernet networks as well as other fiber-to-fiber protocol applications.

No manual configuration is required with the plug-and-play FlexPoint 100FF. 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 or ST connectors. Multimode fiber models support distances of up to 5km, and single-mode fiber models support distances of up to 120km.

The FlexPoint 100FF 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 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.

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.



KEY FEATURES

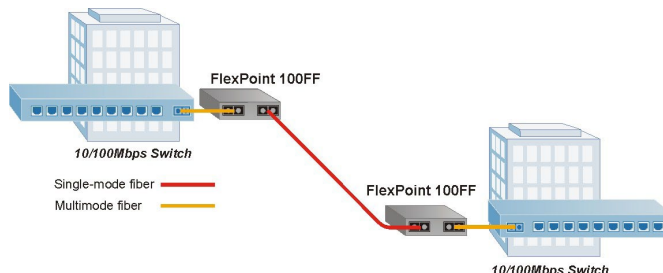
- Fiber-to-Fiber Converter/Transponder supporting:
 - Multimode dual fiber to multimode dual fiber
 - Multimode dual fiber to single-mode dual fiber
 - Single-mode dual fiber to single-mode dual fiber
 - Wavelength conversion
- Conforms to IEEE 802.3 and 100BASE-FX specifications
- Operates with a constant rate signal from 1Mbps to 100Mbps
- Supports multimode and single-mode dual fiber with ST or SC connectors
- Plug-and-play installation requires no manual configuration or software drivers
- Supports auto-negotiation of duplex mode
- Extends network distances up to 120km
- 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
- Made in the USA
- Peace-of-mind reliability backed by a lifetime warranty and free 24/7 technical support

SPECIFICATIONS

Description	FlexPoint 100FF Fast Ethernet Fiber-to-Fiber Converter/Transponder		
Standard Compliances	IEEE 802.3, Protocol Transparent		
Regulatory Compliances	UL, CE, FCC Class A		
Environmental	RoHS, WEEE, REACH		
Frame Size	Supports unlimited frame sizes		
Port Type	Fiber:	100BASE-X (ST, SC)	
Cable Type	Fiber:	Multimode: 50/125µm, 62.5/125µm Single-mode: 9/125µm	
AC Power Requirements	AC Adapter:	100 - 240VAC/50 - 60Hz 0.04A @ 120VAC (typical)	
DC Power Requirements	Voltage Range: Nominal Voltage: Nominal Power:	Barrel Connector	Molex Connector
		6.0 to 15.0VDC 9VDC 0.2A @ 9VDC	4.75 to 5.25VDC 5VDC 0.5A @ 5VDC
Dimensions W x D x H	3.0" x 4.0" x 1.0" (76.2 mm x 101.6 mm x 25.4 mm)		
Weight	Without AC Adapter:	6 oz. (170.1 grams)	
Temperature	Commercial: Storage:	0 to 50°C -40 to 80°C	
Humidity	5 to 95% (non-condensing)		
Altitude	-100m to 4,000m		
MTBF (hrs)	Without AC Adapter (-0):		2,600,000
	With AC Adapter (-1):		250,000
	With AC Adapter (-2):		100,000
Warranty	Lifetime warranty with 24/7/365 free Technical Support		

APPLICATION EXAMPLE

The FlexPoint 100FF fiber converter can extend the network across single-mode fiber with distances up to 120km. In this application, two 10/100Mbps Ethernet switches are connected utilizing a pair of FlexPoint 100FF fiber converters, which are connected to the switches via a multimode fiber uplink.



ORDERING INFORMATION

Port	Fiber Type	Distance	Connector Type		Tx / Rx Lambda (nm)	Min. Tx Power (dBm)	Max. Tx Power (dBm)	Min. Rx Power (dBm)	Max. Rx Power (dBm)	Min. Attenuation (dB)	Link Budget (dB)
			ST	SC							
Port 1	MM/DF	5km	4420-p	4421-p	1310 / 1310	-24	-14	-31	-14	-	7
Port 2	MM/DF	5km			1310 / 1310	-24	-14	-31	-14	-	7
Port 1	MM/DF	2km	4414-6p	4415-6p	850 / 850	-10	-4	-24	-3	-	14
Port 2	SM/DF	30km			1310 / 1310	-15	-8	-31	-8	-	16
Port 1	MM/DF	5km	4410-p	4411-p	1310 / 1310	-24	-14	-31	-14	-	7
Port 2	SM/DF	30km			1310 / 1310	-15	-8	-31	-8	-	16
Port 1	MM/DF	5km	4412-p	4413-p	1310 / 1310	-24	-14	-31	-14	-	7
Port 2	SM/DF	60km			1310 / 1310	-5	0	-31	-3	3	26
Port 1	MM/DF	5km	-	4425-p	1310 / 1310	-24	-14	-31	-14	-	7
Port 2	SM/DF	120km			1550 / 1550	-5	0	-31	-3	3	26
Port 1	SM/DF	60km	-	4423-p	1310 / 1310	-5	0	-31	-3	3	26
Port 2	SM/DF	120km			1550 / 1550	-5	0	-31	-3	3	26

MM = Multimode, SM = Single-mode, DF = Dual Fiber

Base Model Number: 44xx-p

Select the model from ordering table above.

Add power option (p) to the model type selected.

Power Options (p):

-0 = Barrel Connector, No AC/DC Power Adapter

-2 = Barrel Connector and Universal AC/DC Power Adapter, 100-240VAC, 50-60Hz (requires AC power cord)

-1 = Barrel Connector and US AC/DC Power Adapter, 100-240 VAC, 50-60Hz

Operating Temperature:

Commercial temperature (0 to 50°C)

Contact Omnitron for other fiber options, operational temperature ranges and RoHS (5/6) compliant models.

ACCESSORIES

Chassis Options and Accessories			
Model Number	Description	Model Number	Description
4385	FlexPoint 14-Module Chassis with two 48VDC Power Supplies	4395	FlexPoint 14-Module Chassis with two AC Power Supplies
4386	FlexPoint 14-Module Chassis with one 48VDC Power Supply	4396	FlexPoint 14-Module Chassis with one AC Power Supply
4389	Spare 48VDC Power Supply	4399	Spare AC Power Supply
4392	FlexPoint 5-Module Rack-Mount Shelf	4380	FlexPoint Wall-Mounting Hardware Kit
4384	FlexPoint DC to DC Power Adapter Input: 18-60VDC Output: 5VDC	4384-W	FlexPoint DC to DC Power Adapter Input: 18-60VDC Output: 5VDC Wide Temperature Model (-40 to 60°C)
8250	FlexPoint DIN-Rail Mounting Kit	4381	Wall-Mounting Hardware Kit for DC to DC Power Adapter (4384)

See all FlexPoint accessories at: www.omnitron-systems.com/flexpoint-chassis-options.php

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