

### FlexPoint™ 10FL/2 10BASE-FL Fiber to 10BASE-2 Coax Media Converter

The FlexPoint 10FL/2 is a 10BASE-FL fiber to 10BASE-2 coax media converter. The FlexPoint 10FL/2 connects and extends coax segments via fiber.

No manual configuration is required with the plug-and-play FlexPoint 10FL/2. Connect the fiber and coax cables and the installation is complete.

The fiber port operates at 850nm or 1310nm and features ST connectors. Multimode fiber models support distances of up to 5km, and the single-mode fiber model supports distances up to 30km.

The FlexPoint 10FL/2 features a BNC connector supporting 50 ohm cabling with distances up to 185m. Per IEEE 802.3 standard, up to 30 workstations can be attached to the coax segment. A termination switch provides a convenient 50 ohm cable termination.

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, port activity and link status, collision and jabbers.

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

- The FlexPoint 10FL/2 is an 10BASE-FL fiber to 10BASE-2 coax media converter
- Seamlessly connects and extends 10BASE-2 coax network segments via fiber
- Features convenient, switch-selectable coax line termination to save cost and space
- Extends network distances up to 30km
- 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
- Made in the USA
- Peace-of-mind reliability backed by a lifetime warranty and free 24/7 technical support

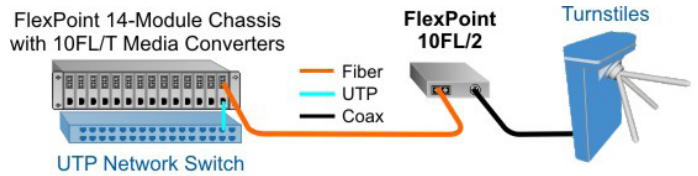
# SPECIFICATIONS

<b>Description</b>	<b>FlexPoint 10FL/2</b> 10BASE-FL Fiber to 10BASE-2 Coax Media Converter		
<b>Standard Compliances</b>	IEEE 802.3		
<b>Regulatory Compliances</b>	UL, CE, FCC Class A, RoHS, WEEE, REACH		
<b>Port Types</b>	Coax:	10BASE-2 (BNC)	
	Fiber:	10BASE-FL (ST)	
<b>Cable Types</b>	Coax:	50 ohm, RG-58/U, RG-58C/U or equiv	
	Fiber:	Multimode: 50/125µm, 62.5/125µm Single-mode: 9/125µm	
<b>AC Power Requirements</b>	AC Adapter:	100 - 240VAC/50 - 60Hz 0.09A @ 120VAC (typical)	
<b>DC Power Requirements</b>	Voltage Range:	Barrel Connector	Molex Connector
	Nominal Voltage:	6.0 to 15.0VDC	4.75 to 5.25VDC
	Nominal Power:	0.8A @ 9VDC	0.8A @ 5VDC
<b>Dimensions W x D x H</b>	3.0" x 4.0" x 1.0" (76.2 mm x 101.6 mm x 25.4 mm)		
<b>Weight</b>	Without AC Adapter:	6 oz. (170.1 grams)	
<b>Temperature</b>	Commercial:	0 to 50°C	
	Storage:	-40 to 80°C	
<b>Humidity</b>	5 to 95% (non-condensing)		
<b>Altitude</b>	-100m to 4,000m		
<b>MTBF (hrs)</b>	Without AC Adapter (-0):	1,200,000	
	With AC Adapter (-1):	250,000	
	With AC Adapter (-2):	100,000	
<b>Warranty</b>	Lifetime warranty with 24/7/365 free Technical Support		



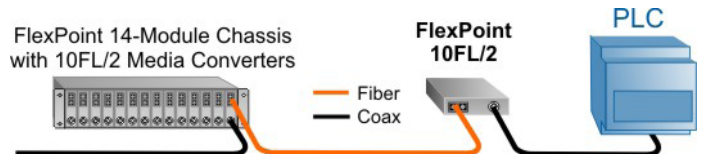
# APPLICATION EXAMPLES

In the application, a FlexPoint 10FL/2 media converter is used to connect a Turnstile that is located beyond the distance supported by the coax infrastructure. Turnstile can be located in areas such as Mass Transit Stations, Airports, Stadiums, Amusement Parks, Office Lobbies, Ski Resorts and Casinos.



At the head end, a FlexPoint 10FL/T fiber-to-copper media converter is used to convert the copper connection from the network switch to fiber. The fiber cabling extends out to the FlexPoint 10FL/2 that converts the fiber to coax and connects to the Turnstile. The network switch gathers data from the Turnstile, allowing or denying entry.

In this second application, a pair of FlexPoint 10FL/2 fiber to coax media converters are providing a 10Mbps Ethernet connection to a remote PLC device. The 10BASE-2 coax connector on the FlexPoint 10FL/2 supports RG-58 50 ohm coax cabling with distances up to 185m.



# ORDERING INFORMATION

Fiber Type	Distance	Connector Type	Tx Lambda	Rx Lambda	Min. Tx Power	Max. Tx Power	Min. Rx Power	Max. Rx Power	Min. Attenuation	Link Budget
		ST	(nm)	(nm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	(dB)
MM/DF	2km	4310-p	850	850	-21	-11	-31	-11	-	10
MM/DF	5km <sup>1</sup>	4312-p	1310	1310	-21	-11	-31	-11	-	10
SM/DF	30km <sup>1</sup>	4311-p	1310	1310	-15	-8	-31	-8	-	16

<sup>1</sup> When operating in half-duplex, the maximum distance is 2km.  
MM = Multimode, SM = Single-mode, DF = Dual Fiber

**Base Model Number: 43xx-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	

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)

© 2021 Omnitron Systems Technology, Inc. All rights reserved. FlexPoint is a Trademark of Omnitron Systems Technology, Inc. Trademarks are owned by their respective companies. Specifications are subject to change without notice.

