

FlexPoint® 232 Baud Rate Autosensing RS-232 to Fiber Media Converter

The FlexPoint 232 is a RS-232 to fiber media converter that provides reliable and cost-effective fiber extension for serial connections.

The asynchronous RS-232 interface supports speeds up to 115,200 baud and supports RTS, CTS, DCD, DTR, and DSR hardware flow control signals providing plug and play connectivity with most serial devices. It features a switch for convenient connection to DTE or DCE equipment.

The fiber port operates at 1310nm and features ST, SC or LC connectors. Multimode fiber models support distances of up to 5km, and single-mode fiber models support distances of up to 60km.

The FlexPoint 232 features descriptions of the LED indicators on the label for easy in-the-field installation and maintenance. The LEDs report the availability of power, DTE/DCE selection, fiber loopback status, port activity and link status.

The FlexPoint 232 features remote loopback capability by testing the fiber link end-to-end from one physical location.

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

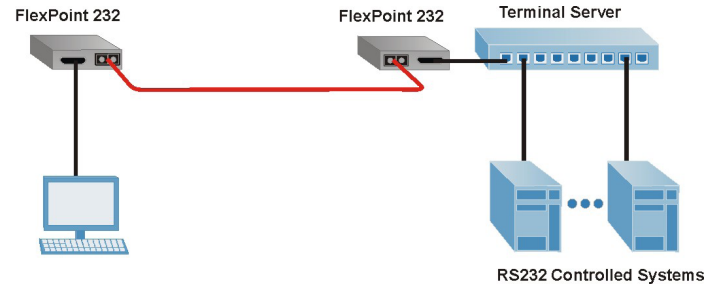
- Asynchronous serial RS-232 to fiber media converter
- Supports speeds up to 115,200 baud
- Extends network distances via fiber up to 60km
- Supports most network port interfaces with a wide variety of cable and connector types
- Features a DTE/DCE switch for easy connection to most serial equipment
- Supports hardware flow control via RTS, CTS, DCD, DTR and DSR
- Feature remote loopback capability for remote fiber testing
- Wall-mount or rack-mount on a 5-Module shelf or in a 14-Module power-redundant FlexPoint Powered Chassis
- Plug and play installation with no software drivers
- TAA, BAA and NDAA compliant, and Made in the USA
- Peace-of-mind reliability backed by a lifetime warranty and free 24/7 technical support

SPECIFICATIONS

Description	FlexPoint 232 Asynchronous RS-232 to Fiber Media Converter		
Data Rates	Up to 115,200 baud		
Standard Compliances	EIA / TIA 232C/D/E		
Regulatory Compliances	Safety:	UL, cUL, CE, UKCA	
	EMI:	FCC Class A	
	ACT:	TAA, BAA, NDAA	
Environmental	RoHS, WEEE, REACH		
Port Types	Copper:	RS-232 (DB-9 Female)	
	Fiber:	Proprietary (ST, SC, LC)	
Cable Types	Copper:	DB9 serial RS232 cable (50 ft./15.2m)	
	Fiber:	Multimode: 62.5/125µm, 100/140µm Single-mode: 9/125µm	
AC Power Requirements	AC Adapter:	100 - 240VAC/50 - 60Hz 0.05A @ 120VAC (typical)	
DC Power Requirements	Voltage Range:	Barrel Connector	Molex Connector
	Nominal Voltage:	6.0 to 15.0VDC	4.75 to 5.25VDC
	Nominal Power:	9VDC	5VDC
		0.5A @ 9VDC	0.6A @ 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:	0 to 50°C	
	Storage:	-40 to 80°C	
Humidity	5 to 95% (non-condensing)		
Altitude	-100m to 4,000m		
MTBF (hrs)	Without AC Adapter (-0):	850,000	
	With AC Adapter (-1):	250,000	
	With AC Adapter (-2):	100,000	
Warranty	Lifetime warranty with 24/7/365 free Technical Support		

APPLICATION EXAMPLE

A pair of FlexPoint 232 modules extend a serial connection over fiber between a PC and Terminal Server allowing access to multiple data devices. Multimode or single-mode fiber can be used, and fiber links can be extended up to 60km using single-mode fiber.



ORDERING INFORMATION

Step 1: Choose a Base Part Number (xxxx-p)

Fiber Type	Distance Copper/Fiber	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	LC							
MM/DF	50 ft./2.5km	4481-p	4480-p	-	1310 / 1310	-25	-14	-30	-14	-	5
MM/DF	50 ft./5km	4483-p	4482-p	4489-1p	1310 / 1310	-24	-14	-31	-14	-	7
MM/SF ¹	50 ft./5km	-	4482-2p	-	1310 / 1550	-8	0	-28	0	-	20
MM/SF ¹	50 ft./5km	-	4482-3p	-	1550 / 1310	-8	0	-28	0	-	20
SM/DF	50 ft./30km	4485-p	4484-p	4489-2p	1310 / 1310	-15	-8	-31	-8	-	16
SM/DF	50 ft./60km	-	4486-p	-	1310 / 1310	-5	0	-31	-3	3	26

¹ When using single-fiber (SF) media converter models, the Tx wavelength on one end has to match the Rx wavelength on the other.

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

Contact Omnitron for other fiber options and operational temperature ranges models.

Step 2: Choose a Power Option (xxxx-p)

-0 = Barrel Connector, No AC/DC Power Adapter
-1 = Barrel Connector and US AC/DC Power Adapter, 100-240 VAC, 50-60Hz
-2 = Barrel Connector and Universal AC/DC Power Adapter, 100-240VAC, 50-60Hz (requires AC power cord)

Operating Temperature

Commercial temperature (0 to 50°C)



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



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

ACCESSORIES

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

See all FlexPoint accessories on [FlexPoint Chassis and Mounting Options product page](#)

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