

FlexPoint

FlexPoint™ 232

Baud Rate Autosensing RS-232 to Fiber Media Converter

The FlexPoint 232 is a modular 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 850nm or 1310nm and features ST, SC, MT-RJ 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.

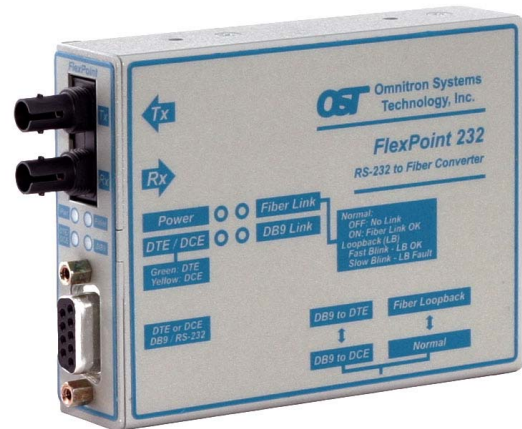
The FlexPoint 232 features remote loopback capability by testing the fiber link end-to-end from one physical location.

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.

Simple, dependable and flexible. For over a decade, FlexPoint media converters have been providing reliable fiber connectivity in Enterprise and mission-critical networks around the world.



- The FlexPoint 232 is an asynchronous serial RS-232 to fiber media converter
- Supports speeds up to 115,200 baud
- Extends network distances via fiber up to 80km
- 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
- Completely software independent with no installation of drivers required
- Peace-of-mind reliability backed by a lifetime warranty and free 24/7 technical support

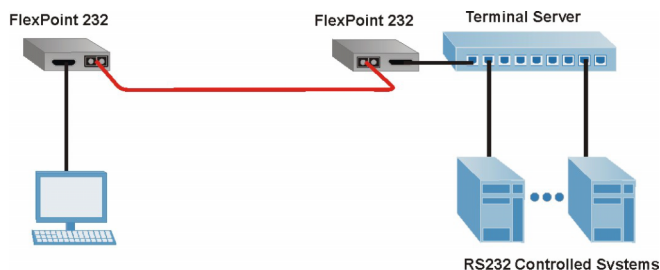
SPECIFICATIONS

Model Type	232															
Protocols	EIA / TIA 232C/D/E															
Flow Control	Software: XON, XOFF Hardware: RTS, CTS, DCD, DTR and DCR															
Data Rates	Up to 115,200 baud															
Copper Cable	DB9 Female, Length: 15.2m / 50ft.															
Fiber Cables	Multimode: 50/125, 62.5/125, 100/140µm Single-mode: 9/125µm															
Fiber Connectors	SC, ST, MT-RJ, LC															
DIP-Switches	DTE / DCE, Fiber Loopback, DB-9 crossover															
LED Displays	Power, DTE/DCE Select, Copper Link/Receive, Fiber Link/Receive															
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	<table><thead><tr><th></th><th>Barrel Connector</th><th>Molex Connector</th></tr></thead><tbody><tr><td>Nominal Voltage:</td><td>9VDC</td><td>5VDC</td></tr><tr><td>Voltage Range:</td><td>6.0 to 15.0VDC</td><td>4.75 to 5.25VDC</td></tr><tr><td>Power Nominal:</td><td>0.5A @ 9VDC</td><td>0.6A @ 5VDC</td></tr><tr><td>Maximum Power:</td><td>1A @ 9VDC</td><td>0.75A @ 5VDC</td></tr></tbody></table>		Barrel Connector	Molex Connector	Nominal Voltage:	9VDC	5VDC	Voltage Range:	6.0 to 15.0VDC	4.75 to 5.25VDC	Power Nominal:	0.5A @ 9VDC	0.6A @ 5VDC	Maximum Power:	1A @ 9VDC	0.75A @ 5VDC
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Temperature	0 to 50° C															
Humidity	5 to 95% (non-condensing)															
Altitude	-100m to 4000m															
MTBF (Hours)	Module without Power Adapter: 850,000 Module with Power Adapter -1: 250,000 Module with Power Adapter -2: 100,000															



APPLICATION EXAMPLE

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



ORDERING INFORMATION

Fiber Type	Distance Fiber / Copper	Connector Type				Tx / Rx Wavelength (nm)	Min. Tx Power (dBm)	Max. Tx Power (dBm)	Min. Rx Sense (dBm)	Max. Rx Power (dBm)	Optical Power Budget
		ST	SC	MT-RJ	LC						
MM	2.5km / 50 ft.	4481-x	4480-x	-		850	-21	-11	-31	-11	10
MM	5km / 50 ft.	4483-x	4482-x	4487-x		1310	-24	-14	-31	-14	7
SM	30km / 50 ft.	4485-x	4484-x	4488-x	4489-2x	1310	-15	-8	-31	-8	16
SM	60km / 50ft.	-	4486-x	-		1310	-5	0	-31	-3	26

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)
For other power and fiber configurations, contact the factory.

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