

FlexPoint™ Gx

Gigabit Ethernet Fiber to Copper Media Converters



[SC]



[LC]



[MT-RJ]

FEATURES

- The FlexPoint™ Gx is a Gigabit Ethernet fiber to twisted pair (UTP) converter. It supports the IEEE 802.3ab 1000Base-Sx/Lx and 1000Base-T standards.
- User-selectable Auto-Negotiation or Manual control.
- User-selectable or Auto-sensing full-duplex (FD) or half-duplex (HD).
- User-selectable or Auto-sensing “Pause” flow control.
- User selectable Link Propagation or Isolation.
- Supports multimode (MM) up to 220 m (720 ft.) and single-mode (SM) fiber up to 65 km (40 mi.) with SC, MT-RJ or LC connector types.
- Supports Category 5 or higher wiring.
- Full range of AC and DC power options.
- Stand-alone wall-mountable or rack-mountable on a 5-unit shelf or in the power-redundant AC or 48VDC Powered Chassis.
- Lifetime warranty.

DESCRIPTION

The FlexPoint Gx converter is an IEEE 802.3ab compliant Gigabit Ethernet 1000Base-T unshielded twisted pair (UTP) to 1000Base-Sx or 1000Base-Lx fiber converter. It is a member of the modular FlexPoint product line that provides a wide range of connectivity options across different network and media types.

The FlexPoint Gx features Auto-Negotiation which allows it to auto-adapt to the full/half duplex and flow control services supported by the device connected to its UTP port. User-selectable override options are provided to set to the desired mode.

The FlexPoint Gx operates in full-duplex providing an effective two (2) Gigabit data rate or in half-duplex at one (1) Gigabit. This feature maximizes the throughput when connecting to high bandwidth full-duplex devices such as servers or switches.

Network flow control is supported via an auto-selected or user-selected “Pause” function that assists in relief of network congestion by providing “back pressure” to the sending device.

The FlexPoint Gx fiber supports 850nm (Sx), 1310nm (Lx) or 1550 nm and uses SC, MT-RJ or LC connectors. The Multimode Sx supports distances of up to 220m. (720ft.) and the single-mode models support distances of up to 65 km (40 mi.)

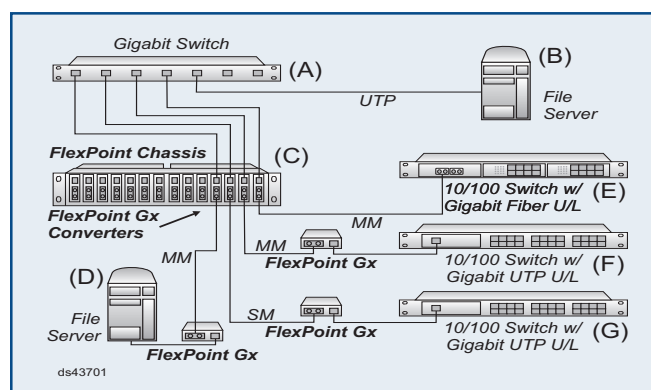
User-selectable Link Propagation is available to facilitate Spanning-Tree redundant network architectures as well as for

connection to SNMP or other network managed devices which monitor link availability. A user-selectable override is provided to isolate the link detection to a per segment basis.

The FlexPoint Gx UTP port uses a modular EIA/TIA 568 RJ45 connector and supports category 5 or higher wiring with distances of up to 100m. (328ft.). Automatic polarity detection and correction assists in network installation and maintenance.

The FlexPoint can be mounted stand-alone utilizing a wall-mounting kit or rack-mounted using a 5-unit shelf. When used stand-alone or on the shelf, it can be powered from a 110 or 220 VAC power adapter or from a 5, 9 or 18-72VDC power. For high-density applications, the FlexPoint Gx can be mounted in a 14-unit, dual power-redundant AC or 48VDC Powered Chassis.

SAMPLE APPLICATIONS



SPECIFICATIONS

- Protocol: IEEE 802.3ab, 1000Base-T, 1000Base-X
- Connectors and Cables:
 - Twisted Pair UTP: RJ45, Category 5 or higher
 - Fiber: SC, MT-RJ or LC
 - Multimode: 50/125, 62.5/125 μ m
 - Single-Mode: 9/125 μ m
- Twisted Pair UTP Distance: 100 m / 328 ft.
- Fiber Distances: See table below
- LEDs: Power, Fiber Link/Activity, UTP Link/Activity, Full/Half Duplex
- Switches:
 - Auto-Negotiation: Enable/Disable
 - Duplex Mode: Full-Duplex/Half-Duplex
 - Pause: Enable/Disable
 - Link Propagation: Propagate/Isolate
- Dimensions / Weight: W:3.0"xD:4.0"xH:1.0" / 6 oz.
- Power:
 - 9VDC/500mA (via 110/220 AC Adaptor)
 - 5VDC/750mA
 - 18-60VDC (via DC Adaptor)
- Temperature:
 - Operating: 0 to 70 degrees C
 - Storage: -40 to 80 degrees C
- Humidity: 0-90% (non-condensing)

FIBER OPTIC SPECIFICATIONS and ORDERING INFORMATION

Model	Fiber / Connector	Wavelength	Tx Power Min (dBm)	Tx Power Max (dBm)	Rx Power Sensitivity(dBm)	Rx Power Max (dBm)	Power Budget Budget	Distance	Comments
4370-x	MM / SC	850nm	-10	-10	-10	-10	10	220m	Sx
4371-x	SM / SC	1310nm	0	0	0	0	0	10km	Lx
4372-x	SM / SC	1310nm	0	0	0	0	0	25km	Lx/LH
4373-x	SM / SC	1550nm	0	0	0	0	0	65km	XLH
4670-x	MM / MT-RJ	850nm	0	0	0	0	0	220m	Sx
4671-x	SM / MT-RJ	1310nm	0	0	0	0	0	10km	Lx
4673-x	SM / LC	1310nm	0	0	0	0	0	10km	Lx
4674-x	SM / LC	1310nm	0	0	0	0	0	25km	Lx/LH
4674-x	SM / LC	1550nm	0	0	0	0	0	65km	XLH

Mounting Options

Model Description

4380	FlexPoint Wall-Mounting Kit (Stand-alone AC powered)
4381	FlexPoint Wall-Mounting Kit (Stand-alone with DC adapter)
4392	FlexPoint 5-Unit Rack-Mounting Shelf
4384	FlexPoint DC 18-60VDC Stand-alone Power-Adapter
4385	FlexPoint 14-Unit 48VDC Power-Redundant Powered Chassis
4389	Redundant Power Supply for Model 4385
4395	FlexPoint 14-Unit AC Power-Redundant Powered Chassis
4399	Redundant Power Supply for Model 4395

Power options (-x):

-0	No power adapter included (chassis module)
-1	110 Volt / 60 Hz
-2	230 Volt / 50 Hz

For other power configurations, consult factory.

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