

**FlexPoint™ Gx User Instructions**

**Description:**

The FlexPoint Gx converts between Gigabit Ethernet fiber 1000Base-X (Sx/Lx) and 1000Base-T twisted pair (RJ45 UTP) cabling. The following multimode (MM) and single-mode (SM) models are described here:

Model	Fiber Type	MaxDistance	Type
4370	850 nm (MM)	220 m / 720 ft.	SC
4371	1310 nm (SM)	10 km / 6.2 mi.	SC
4372	1310 nm (SM)	25 km / 15.5 mi.	SC
4373	1550nm (SM)	65 km / 40.4 mi.	SC
4670	850 nm (MM)	220 m / 720 ft.	MT-RJ
4671	1310 nm (SM)	10 km / 6.2 mi.	MT-RJ
4673	1310 nm (SM)	10 km / 6.2 mi.	LC
4674	1310 nm (SM)	25 km / 15.5 mi.	LC
4675	1550nm (SM)	65 km / 40.4 mi.	LC

**Power Adapter Notice:**

1. When using in a stand-alone configuration, this product is intended to be and must be used only with a Listed Direct Plug-In Power Unit marked "Class 2" and rated at 9VDC, 1 Amp.
2. This product should only be used only with Omnitron Supplied Power Unit model number 9113-PS.

**WARNING!**  
*Before inserting the Power Adapter, verify that the power on the unit is appropriate for your AC line voltage source.*

**Mounting and Cable Attachment:**

The FlexPoint Gx can be stand-alone-mounted using a wall-mounting kit (model 4380). It can also be rack-mounted using a 5-position shelf (Model 4392) or a high-density 14-unit FlexPoint Powered Chassis (AC powered model 4395 or 48VDC powered model 4385). Attach the FlexPoint Gx UTP via a category 5 or higher cable to a 1000Base-T Ethernet device. Attach the FlexPoint Gx fiber via a single-mode or multimode (as needed) cable to a 1000Base-X Gigabit Ethernet device (make sure to use the correct wavelegth source for the model being used). The FlexPoint transmit (Tx) must attach to the receive side on other device; the receive (Rx) must attach to the transmit.

**Switch Settings:**

**"Auto-Negotiation" Switch:**  
Setting the switch to "Enable" (factory setting) enables the UTP port to determine the duplex and pause modes automatically. Setting the switch to "Disable" causes the mode of the Duplex and Pause switches to be advertised to the connected device. The recommended mode is "Enable" (factory setting).

**"Full Duplex/Half Duplex" Switch:**  
This switch controls the half/full-duplex advertising of the FlexPoint Gx preferred mode of operation (when the

Auto-Negotiation switch is in the "Disable" position). The recommended mode is "Full-duplex" (factory setting).

**"Pause" Switch:**  
This switch controls the "Pause" advertising of the FlexPoint Gx preferred mode of operation (when the Auto-Negotiation switch is in the "Disable" position). The recommended mode is "Enable" (factory setting).

**"Link Isolate / Link Propagate" Switch:**  
When set to the "Link Prop." (factory setting), the link state is propagated from the UTP port to the fiber port and visa versa. This allows the loss of link to be propagated and detected by SNMP or other network managed devices and it facilitates Spanning-Tree network reconfiguration during a cable failure.

When set to "Link Isolate" the generation and detection of link presence is done at each point-to-point segment. It should be noted that when in "Link Prop." mode, the absence of received UTP link causes the transmitted fiber link to be turned off. The absence of received fiber link causes both the transmit and receive UTP link to be turned off. This mechanism prevents a "deadly embrace" when both links are absent initially during power-up and configuration.

**LED Indicators:**

LED	Color	Description
Power	Yellow	Power applied
FDX/HDX	Yellow	On - Full-Duplex Off - Half Duplex
F/O Link/Rx	Green	Fiber Link / Data Received
UTP Link/Rx	Green	UTP Link / Data Received



**User Warranty Registration**

Please register on-line @ <http://www.omnitron-systems.com> or complete both sides and mail or fax this registration form to:

**Omnitron Systems Technology, Inc.**  
27 Mauchly #201  
Irvine, CA 92618, USA  
Fax: (949) 250-6514

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Country: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

Please complete both sides of this form

**User Warranty Registration**

Please register on-line @ <http://www.omnitron-systems.com> or complete both sides and mail or fax this registration form to:

FlexPoint Type: Gx, Fiber Type: \_\_\_\_\_ Connector: \_\_\_\_\_  
Model: \_\_\_\_\_  
Serial Number: \_\_\_\_\_ Purchase Date: \_\_\_\_\_  
Purchased From: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Country: \_\_\_\_\_  
Comments and Suggestions: \_\_\_\_\_



**Warning**

The operating description in this Instruction Manual is for use by qualified personnel only. To avoid electrical shock, do not perform any servicing of this unit other than that contained in the operating instructions, unless you are qualified and certified to do so by Omnitron Systems Technology, Inc.

**Caution**

All user-required operations can be performed without opening the unit. Never attempt to open or remove the cover or tamper with the unit.

**Warranty**

This product is warranted to the original purchaser against defects in material and workmanship for a period of TWO YEARS from the date of shipment. A LIFETIME warranty may be obtained by the original purchaser by REGISTERING this product with Omnitron within 90 days from the date of shipment. TO REGISTER, COMPLETE AND MAIL OR FAX THE REGISTRATION PORTION OF THIS INSTRUCTION MANUAL TO THE INDICATED ADDRESS. Or you may register your product on the internet at <http://www.omnitron-systems.com>. During the warranty period, Omnitron will, at its option, repair or replace a product which is proven to be defective.

For warranty service, the product must be sent to an Omnitron designated facility, at Buyer's expense. Omnitron will pay the shipping charge to return the product to Buyer's designated US address using Omnitron's standard shipping method.

**Limitation of Warranty**

The foregoing warranty shall not apply to defects resulting from improper or inadequate use and/or maintenance of the equipment by Buyer, Buyer-supplied equipment, Buyer-supplied interfacing, unauthorized modifications or tampering with equipment (including removal of equipment cover by personnel not specifically authorized and certified by Omnitron), or misuse, or operating outside the environmental specification of the product (including but not limited to voltage, ambient temperature, radiation, unusual dust, etc.), or improper site preparation or maintenance.

No other warranty is expressed or implied. Omnitron specifically disclaims the implied warranties of merchantability and fitness for any particular purpose.

**Exclusive Remedies**

The remedies provided herein are the Buyer's sole and exclusive remedies. Omnitron shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any legal theory.

**Technical Support:**

For help with this product, contact our Tech. Support:  
Phone: (949) 250-6510  
Fax: (949) 250-6514  
Address: Omnitron Systems Technology, Inc.  
27 Mauchly #201  
Irvine, CA 92618 USA  
E-mail: [support@omnitron-systems.com](mailto:support@omnitron-systems.com)  
URL: <http://www.omnitron-systems.com>

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