

**FlexSwitch™ 600XC 2Fx+2U**  
**User Instructions**

**Description:**

The FlexSwitch™ 600XC 2Fx+2U provides two UTP drop-off/insertion points for connections to other workstations, servers and switches with the functionality of a fiber repeater via two fiber ports. It features two 10/100 auto-sensing RJ45 style UTP ports and two switched Fast Ethernet fiber ports. It operates in half or full duplex. The following multimode and single-mode models are described here:

Ext. Power Model	Int. Power Model	UTP RJ45	Fiber
6740-F1 <sup>1</sup>	6540-F1 <sup>1</sup>	2 @ 10/100	2 @ 100 SC
6741-F1 <sup>1</sup>	6541-F1 <sup>1</sup>	2 @ 10/100	2 @ 100 ST

<sup>1</sup> The "F" denotes the fiber type used on the fiber ports.

**Power Adapter Notice:**

**Please use the following to identify your model:**  
**F1 = 0, 2, 3**

0 = Multimode Lx	1300nm
2 = Single-mode Lx	1300nm
3 = Single-mode Lx/LH	1300nm Extended Distance

- When used with an external power adapter (models 67xx), this product must only be used with Omnitron Supplied Power Unit model number 9112-PS.
- When used with an external power adapter (models 67xx), 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, 1.2 Amp.

- Models using internal power supplies (models "65xx") are capable of auto switching from 100-230V, and are supplied with a U.S. type NEMA 5-15 power cable.
- For products being shipped outside of the U.S., the user is required to install a properly grounded IEC 320-appliance cable with a minimum rating of 10 AMPs.
- User-supplied cables must meet the required safety agency approvals, applicable international standards and electrical ratings for the region.

**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 FlexSwitch 600XC can be used as a tabletop unit or wall-mounted using a wall-mounting kit.

After connecting to an appropriate power outlet, attach the FlexSwitch 600XC UTP ports via category 5 cables to properly configured and operational 10Base-T or 100Base-Tx Ethernet workstations, hubs or switches. Verify that the LEDs display the expected (10 or 100, half or full duplex) status. Note that both UTP ports have a built-in crossover switch that facilitates the usage of a straight-through cable for all applications.

Attach the FlexSwitch 600XC via appropriate fiber cables (SC or ST as needed) to a 100Base-Fx Fast Ethernet fiber switches, hubs or workstations. The fiber's transmit (Tx) must attach to the receive side on the opposing device; the receive (Rx) must attach to the transmit. Set the "Half/Full Duplex" switches as needed.

**Switch Settings:**

**UTP "Crossover" Switch:** When connecting UTP port 3 or 4 to a hub or switch, set the corresponding switch to "Crossover." When connecting to a workstation, set the corresponding switch to "Straight-Through" (factory setting).

**"Full-Duplex (FDX) / Half-Duplex (HDX)" Switch:**

When the FDX / HDX switches on fiber port 1 or 2 is set to "Half-Duplex", that fiber port operates in half duplex. When set to "Full-Duplex" (factory setting) that fiber port operates in full duplex. Half duplex must be used when connecting to a hub. Full duplex should be used when connecting to a switch or a full-duplex workstation.

**Manual Port Configuration with Switches**

The FlexSwitch 600XC has the ability to configure ports to a particular speed (10 or 100Mbps) or duplex (half/full-duplex) through the use of switches. These Switches are located on the side of the unit and control the two UTP ports. Setting the the switches to "Auto" enables the port to determine the speed and duplex mode automatically. If the connected device cannot provide the proper signal to indicate its own mode of operation, the manual switches should be used. This feature allows connections with devices that do not auto-negotiate properly. Use the following steps to manually configure these ports.

- Turn off auto-negotiation (Auto) to the desired port by setting the appropriate switch to the manual position (Man).
- Adjust the 10/100 Mbps switch to the speed of the connecting device and check for link status.
- Adjust the half/full-duplex switch to accommodate the connecting device and check for link status.

**User Warranty Registration**

Please register online at <http://www.omnitron-systems.com> or complete both sides and return this form to Omnitron Systems.

FlexSwitch Type: \_\_\_\_\_ Fiber Type: \_\_\_\_\_ Connector: \_\_\_\_\_

Model: \_\_\_\_\_

Serial Number: \_\_\_\_\_ Purchase Date: \_\_\_\_\_

Purchased From: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Country: \_\_\_\_\_

Comments and Suggestions: \_\_\_\_\_

Please complete both sides of this form

**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.

**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: \_\_\_\_\_

**LED Indicators:**

Function	Color	Description
<b>Fiber:</b>		
Link/Act	Green	Off: No Link detected On: Link detected Flashing: Data Received
<b>UTP:</b>		
10/100	Green/Yellow	Yellow On: 10 Green On: 100 Yellow or Green Flashing: Activity detected.
FDX/HDX	Green	Off: Set to Half-Duplex. On: Set to Full-Duplex.

**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  
Email: [support@omnitron-systems.com](mailto:support@omnitron-systems.com)  
URL: <http://www.omnitron-systems.com>