

FEATURES

- 2-port Gigabit fiber switch functions as a repeater, distance extender and fiber converter.
- Supports 1000Base-X and IEEE 802.3z specifications.
- Delivers full wire-speed.
- Fiber ports feature SC connectors and support multimode and/or single-mode fiber.
- Flow control per 802.3x specification.
- Each Gigabit Ethernet fiber port is capable of connecting distances up to 50 km (31 mi.).
- Available with external power adapter or internal power supply.
- Software-independent.
- Lifetime warranty.

DESCRIPTION

The FlexSwitch 600XC 2Gx is a 2-port Gigabit Ethernet fiber switch that can be used as a repeater for connecting switched or shared segments and devices using fiber. It can maximize and extend network distances and be used as a fiber converter to convert between different fiber options, such as multimode short-wavelength (Sx) and single-mode long-wavelength (Lx) fiber.

The Gigabit Ethernet fiber ports are available with SC connectors for multimode or single-mode fiber. Distances of 550m (1,800 ft.) with multimode fiber and up to 50 km (31 mi.) with single-mode fiber are supported.

Using its store-and-forward technology with 2-Mbyte buffer memory, the FlexSwitch 600XC 2Gx supports a full wire-speed of 1,488,000 64-byte packets per second (pps) simultaneously in both directions.

As a Layer 2 switch, each port of the FlexSwitch 600XC 2Gx is capable of MAC address learning and aging with support for up to 2,000 MAC addresses, as well as packet filtering and forwarding. The FlexSwitch 600XC checks all packets and discards illegal or corrupted packets thus providing fragment-free packet forwarding and enhancing the overall network performance.

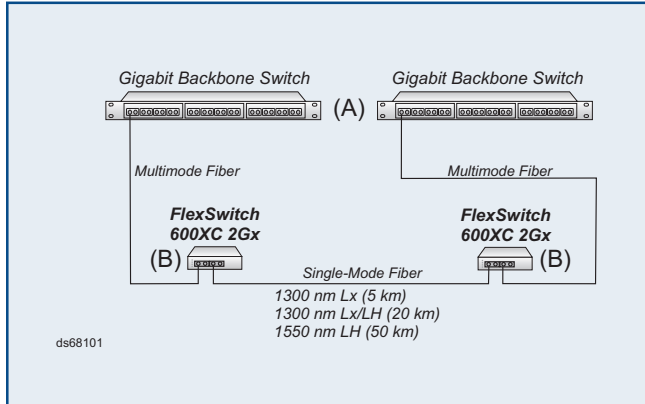
Using the 802.3x advanced flow control specification, the FlexSwitch 600XC controls the flow of data in order to ensure data integrity.

The FlexSwitch 600XC 2Gx is plug-and-play capable right out of the box, requiring no user configuration.

SAMPLE APPLICATION

Gigabit Repeating Fiber Converter

This application depicts the connection between two Gigabit Ethernet backbones (A) using multimode fiber. The two switches are connected via single-mode fiber using a pair of FlexSwitch 600XC 2Gx as fiber converters (B). The FlexSwitch 600XC can connect distances of up to 50 km using single-mode fiber.



- **Connectors and Cables**
 - Fiber: SC
 - Multimode (MM): 50/125, 62.5/125, 100/140 μ m
 - Single-Mode (SM): 9/125 μ m
- **Supported Distances (per fiber port):**
 - MM/Sx, 850 nm
 - 50 μ /500 MHz: 550 m / 1,800 ft.
 - 50 μ /400 MHz: 500 m / 1,640 ft.
 - 62.5 μ /200 MHz: 275 m / 900 ft.
 - 62.5 μ /160 MHz: 220 m / 720 ft.
 - SM/Lx, 1300 nm/9 μ : 5 km / 3.1 mi.
 - SM/Lx/LH, 1300 nm/9 μ : 20 km / 12.5 mi.
 - SM/LH, 1550 nm/9 μ : 50 km / 31 mi.

- **LED Indicators**

Function	Color & Description
Fiber:	Link/activity, green
Off:	No link detected
Green On:	Link detected
Flashing:	Activity detected

- **Dimensions/Weight:**

Model 6810: (External power adapter)	W:6.0"xD:4.0"xH:1.75" / 0.5 lb.
Model 6610: (Internal power supply)	W:6.5"xD:8.0"xH:1.75" / 1.5 lb.

- **Power:**

External (models 6810):	9 VDC/1.2 Amp
Internal (models 6610):	110/230 VAC, 50/60 Hz, 300 mA

- **Temperature:**

Operating	0 to 50 degrees C
Storage	-40 to 75 degrees C

- **Humidity:**

0-90% (non-condensing)
(NOTE:MM = Multimode; SM = Single-mode; LH = Long-haul)

SPECIFICATIONS

- **Protocol:** IEEE 802.3z
 - Gigabit Ethernet: 1000Base-X
 - Flow Control: 802.3x
- **Basic Features:**
 - MAC Addresses: 2,000
 - Buffer size: 2 MB

ORDERING INFORMATION

PORT 1 \ PORT 2	Multimode Sx 850 nm (550 m)	Single-Mode Lx 1300 nm (5 km)	Single-Mode Lx/LH 1300 nm (20 km)	Single-Mode LH 1550 nm (50 km)
Multimode Sx 850 nm (550 m)	6810-11 6610-11	6810-12 6610-12	6810-13 6610-13	6810-14 6610-14
Single-Mode Lx 1300 nm (5 km)		6810-22 6610-22	6810-23 6610-23	6810-24 6610-24
Single-Mode Lx/LH 1300 nm (20 km)			6810-33 6610-33	
Single-Mode LH 1550 nm (50 km)				6810-44 6610-44

Notes: 1. 6810-xx are models with external power adapter (110V, US standard); 6610-xx are models with internal power supply (110/230V, universal).
2. For other configurations, consult factory.

Trademarks are owned by their respective companies.
FlexSwitch is a trademark of Omnitron Systems Technology, Inc.
Specifications subject to change without notice.
©1999-2001 Omnitron Systems Technology, Inc.

**OST Omnitron Systems
Technology, Inc.**

27 Mauchly #201, Irvine, CA 92618
Tel: (949) 250-6510 Fax: (949) 250-6514
E-mail: info@omnitron-systems.com
<http://www.omnitron-systems.com>