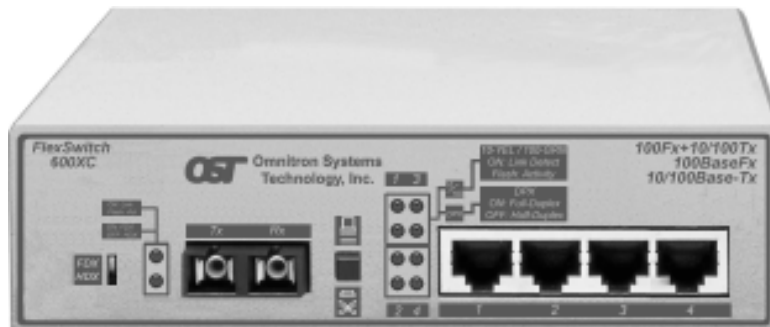**Omnitron Systems Technology, Inc.**

FlexSwitch™ 600XC 1Fx+4U
5-Port Compact Switch with 1 Fast Ethernet Fiber Port and 4 10/100 UTP Ports

FEATURES

- 5-port Layer 2 compact switch offering four 10/100 UTP ports and one Fast Ethernet fiber port capable of connecting distances up to 58 km (36 mi.).

- Supports fiber and twisted pair (UTP) links to workstations, servers, hubs and other switches.

- Supports 10Base-T/100Base-Tx, 100Base-Fx and IEEE 802.3 specifications.

- Delivers full wire-speed over all ports simultaneously.

- The fiber port supports multimode (MM) or single-mode (SM) fiber, SC or ST connectors.

- All UTP ports support 10/100 auto-sensing and half/full duplex auto-negotiation.

- Features port management.

- Features a crossover switch for easy connection to other hubs and switches via UTP port.

- Flow control per 802.3x specification.

- Available with external power adapter or internal power supply.

- Software-independent.

- Lifetime warranty.

DESCRIPTION

The FlexSwitch 600XC 1Fx+4U 5-port compact switch provides Layer 2 switching. It delivers UTP and fiber switching bandwidth to 10/100 Ethernet and Fast Ethernet for distributed and small workgroup applications.

This switch features four 10/100 auto-sensing UTP ports that adjust the speed for attached 10Base-T and 100Base-Tx devices. In addition, the FlexSwitch 600XC 1Fx+4U automatically negotiates and provides full-duplex and half-duplex capability on all ports to boost bandwidth. These features allow a seamless migration path to newer technologies.

The Fast Ethernet fiber port is available with SC or ST connectors for multimode or single-mode fiber. Distances of 412 m (1,350 ft.) in half duplex and up to 58 km (36 mi.) in full duplex are supported.

Using its store-and-forward technology with 1-Mbyte buffer memory, the FlexSwitch 600XC 1Fx+4U supports a full wire-speed of 148,800 64-byte packets per second simultaneously on all ports.

Featuring port management, the FlexSwitch 600XC 1Fx+4U has the ability to configure UTP ports to a particular speed (10 or 100 Mbps) or duplex mode (half or full duplex) through the use of switches. This feature can be used when the connected device is unable to provide its own mode of operation to the switch.

As a Layer 2 switch, each port of the FlexSwitch 600XC 1Fx+4U is capable of MAC address learning and aging with support for up to 1,000 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.
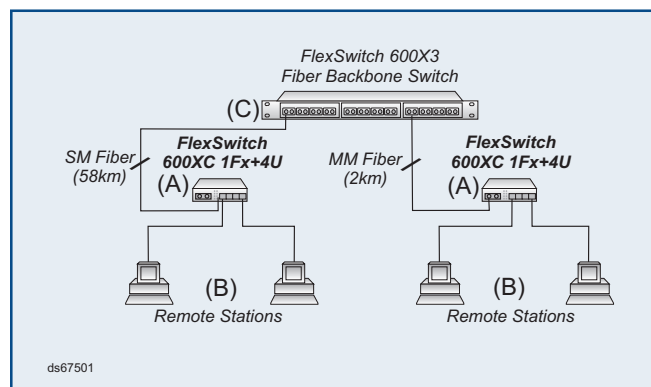
Using the 802.3x advanced flow control specification, the FlexSwitch 600XC controls the flow of data in order to ensure data integrity.

The FlexSwitch 600X 1Fx+4U is plug-and-play capable right out of the box, requiring no user configuration. It supports crossover MDI/MDI-X switch on UTP Port One for one uplink applications, eliminating the need for crossed cables.

SAMPLE APPLICATION

Remote Workgroups

This application depicts remote workgroups (B) connecting via 100 Mbps Fast Ethernet UTP to the FlexSwitch 600XC 1Fx+4U compact switches (A). The compact switches are connected via 100 Mbps Fast Ethernet fiber to a backbone switch (C). Since all connections are switched and in full duplex, their distances can reach up to 58 km (36 mi.) utilizing single-mode fiber.

SPECIFICATIONS

- **Protocol:** IEEE 802.3
  - **Ethernet** 10Base-T
  - **Fast Ethernet** 100Base-Tx, 100Base-Fx
  - **Flow Control** 802.3x
- **Basic Features:**
  - **MAC Addresses** 1,000
  - **Buffer size** 1 MB
- **Connectors and Cables**
  - **Twisted Pair UTP:** RJ45, Category 5 (EIA/TIA 568)
  - **Fiber:** SC or ST
  - **Multimode (MM):** 50/125, 62.5/125, 100/140 μm
  - **Single-Mode (SM):** 9/125 μm

- **Supported Distances:**

Ethernet	Half-Duplex	Full-Duplex
Twisted Pair UTP:	100 m / 328 ft.	100 m / 328 ft.
Fast Ethernet	**Half-Duplex**	**Full-Duplex**
Twisted Pair UTP:	100 m / 328 ft.	100 m / 328 ft.
Fiber:		
MM/Lx, 1300 nm:	412 m / 1,350 ft.	2 km / 1.2 mi.
SM/Lx, 1300 nm:	412 m / 1,350 ft.	28 km / 16.8 mi.
SM/Lx/LH, 1300 nm:	412 m / 1,350 ft.	58 km / 36 mi.

- **LED Indicators**

Function	Color & Description
UTP:	Green/yellow
Yellow On:	10
Green On:	100
Flashing:	Activity detected
Fiber:	Link/activity green
Off:	No link detected
Green On:	Link detected
Flashing:	Activity detected
Full/Half Duplex:	Green
Off:	Set to half duplex
On:	Set to full duplex

- **Dimensions/Weight:**
  - **Models 67xx:** W:6.0"xD:4.0"xH:1.75" / 0.5 lb.
  - **(External power adapter)**
  - **Models 65xx:** W:6.5"xD:8.0"xH:1.75" / 1.5 lb.
  - **(Internal power supply)**
- **Power:**
  - **External:** 9 VDC/1.2 Amp
  - **Internal:** 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)

ORDERING INFORMATION

Model	Description

Models with External Power Adapter: (110V, US Standard)

6750-0	1@100 MM/SC/Lx, 1300 nm Fiber + 4@10/100 UTP
6750-2	1@100 SM/SC/Lx, 1300 nm Fiber + 4@10/100 UTP
6750-3	1@100 SM/SC/Lx/LH, 1300 nm Fiber + 4@10/100 UTP
6751-0	1@100 MM/ST/Lx, 1300 nm Fiber + 4@10/100 UTP
6751-2	1@100 SM/ST/Lx, 1300 nm Fiber + 4@10/100 UTP

Models with Internal Power Supply: (110/230V, Universal)

6550-0	1@100 MM/SC/Lx, 1300 nm Fiber + 4@10/100 UTP
6550-2	1@100 SM/SC/Lx, 1300 nm Fiber + 4@10/100 UTP
6550-3	1@100 SM/SC/Lx/LH, 1300 nm Fiber + 4@10/100 UTP
6551-0	1@100 MM/ST/Lx, 1300 nm Fiber + 4@10/100 UTP
6551-2	1@100 SM/ST/Lx, 1300 nm Fiber + 4@10/100 UTP

Note: MM = Multimode SM = Single-mode
LH = Long-haul

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