

FlexPoint

FlexPoint™ OC3FF

Single-mode to Multimode Fiber Converters for OC-3

The FlexPoint OC3FF is a protocol-independent fiber converter that provides reliable and cost-effective extension of network distances by connecting multimode fiber networks or devices over single-mode fiber cabling.

No manual configuration is required with the plug-and-play FlexPoint OC3FF. Connect the fiber cables to the appropriate interface and the installation is complete.

The FlexPoint OC3FF is designed to operate with a constant rate signal between 1Mbps to 155Mbps allowing the converter to be used in ATM networks as well as other fiber-to-fiber protocol applications.

The fiber port operates at 850nm, 1310nm or 1550nm and features SC or ST connectors. Multimode fiber models support distances of up to 5km, single-mode fiber models support distances of up to 120km, and single-mode single fiber models support distances up to 20km.

The FlexPoint OC3FF features descriptions of the LED indicators on the label for easy in-the-field installation and maintenance. The LEDs report the availability of power and the detection of devices attached to the fiber ports.

FlexPoint modules can be mounted utilizing optional wall-mounting hardware or with DIN-rail mounting brackets. They can also be rack-mounted in a 5-Module shelf or in a high-density 14-Module, power-redundant Powered Chassis.

FlexPoint modules installed in the 5-Module shelf or used as standalone devices can be powered by an external AC to DC power adapter, or through the 5VDC chassis connector. Standalone modules can also be powered by attaching an external DC power supply (18-60VDC). When used in the 14-Module power-redundant Powered Chassis with any combination of AC and DC power supplies, the installed modules are powered via the 5VDC chassis connector.

The wide variety of FlexPoint mounting and power options provide flexible upgrade paths as network requirements change and grow.

Simple, dependable and flexible. For over a decade, FlexPoint media converters have been providing reliable fiber connectivity in Enterprise and mission-critical networks around the world.



- The FlexPoint OC3FF single-mode to multimode protocol-independent fiber converter
- Supports all OC-3 standards over ATM and SONET
- Plug-and-play installation requires no manual configuration
- Operates with a constant rate signal from 1M to 155Mbps
- Supports auto-negotiation of duplex mode
- Extends network distances up to 120km
- Supports most network interfaces with a variety of cable and connector types
- Labeled status LEDs for quick and easy installation
- Wall-mount or rack-mount on a 5-Module shelf or in a 14-Module power-redundant FlexPoint Powered Chassis
- Completely software independent with no installation of drivers required
- Peace-of mind reliability backed by a lifetime warranty and free 24/7 technical support

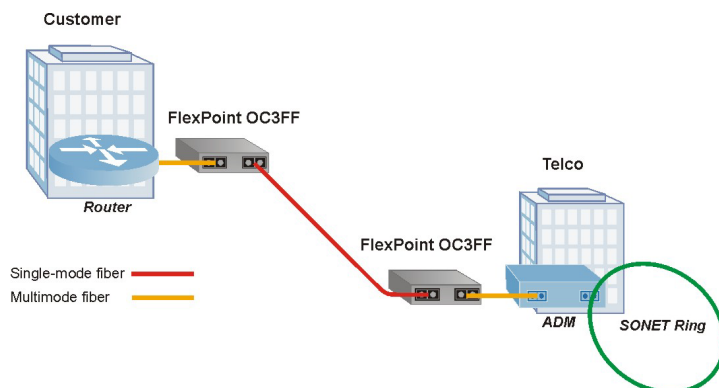
SPECIFICATIONS

| | | |
|--------------------|---|--|
| Model Type | OC3FF | |
| Protocols | OC-3 | |
| Fiber Cables | Multimode: 50/125, 62.5/125, 100/140µm Single-mode: 9/125µm | |
| Fiber Connectors | SC, ST | |
| LED Displays | Power, Fiber Link/Activity | |
| Dimensions | W: 3.0" x D: 4.0" x H: 1.0" | |
| Weight | 6 oz. (without power adapter) | |
| Compliance | UL, CE, FCC Class A | |
| Power Requirements | Barrel Connector Nominal Voltage: 9VDC Voltage Range: 6.0 to 15.0VDC Power Nominal: 0.2A @ 9VDC Maximum Power: 1A @ 9VDC | Molex Connector Nominal Voltage: 5VDC Voltage Range: 4.75 to 5.25VDC Power Nominal: 0.5A @ 5VDC Maximum Power: 0.75A @ 5VDC |
| Temperature | 0 to 50° C | |
| Humidity | 5 to 95% (non-condensing) | |
| Altitude | -100m to 4000m | |
| MTBF (Hours) | Module without Power Adapter: 2,600,000 Module with Power Adapter -1: 250,000 Module with Power Adapter -2: 100,000 | |



APPLICATION EXAMPLE

The FlexPoint OC3FF fiber converter can extend the network across single-mode fiber with distances up to 120km. In this application, the customer's router is connected to an Add Drop Multiplexer (ADM) providing access to the SONET ring using a pair of FlexPoint OC3FF fiber converters. The converters provide the multimode to single-mode conversion.



ORDERING INFORMATION

| Port | Fiber Type | Distance | Connector Type | | Wavelength [nm] | Min. Tx Power (dBm) | Max. Tx Power (dBm) | Min. Rx Sensitivity (dBm) | Max. Rx Sensitivity (dBm) | Link Budget (dBm) |
|--------|------------|----------|----------------|--------|--------------------|---------------------|---------------------|---------------------------|---------------------------|-------------------|
| | | | ST | SC | | | | | | |
| Port 1 | MM | 5km | 4450-x | 4451-X | 1310 | -24 | -14 | -31 | -14 | 7 |
| Port 2 | SM | 30km | | | 1310 | -15 | -8 | -31 | -8 | 16 |
| Port 1 | MM | 5km | 4452-x | 4453-x | 1310 | -24 | -14 | -31 | -14 | 7 |
| Port 2 | SM | 60km | | | 1310 | -5 | 0 | -31 | -3* | 26 |
| Port 1 | MM | 2km | 4454-x | 4455-x | 850 | -23 | -12 | -31 | -12 | 8 |
| Port 2 | SM | 30km | | | 1310 | -15 | -8 | -31 | -8 | 16 |
| Port 1 | MM | 2km | 4456-x | 4457-x | 850 | -23 | -12 | -31 | -12 | 8 |
| Port 2 | SM | 60km | | | 1310 | -5 | 0 | -31 | -3* | 26 |
| Port 1 | MM | 5km | - | 4458-x | 1310 | -24 | -14 | -31 | -14 | 7 |
| Port 2 | SM | 120km | | | 1550 | -5 | 0 | -31 | -3* | 26 |
| Port 1 | SM | 30km | - | 4459-x | 1310 | -15 | -8 | -31 | -8 | 16 |
| Port 2 | SM | 120km | | | 1550 | -5 | 0 | -31 | -3* | 26 |
| Port 1 | MM | 5km | - | 4650-x | 1310 | -24 | -14 | -31 | -14 | 7 |
| Port 2 | SM / SF | 20km | | | Tx 1310 Rx 1550 | -15 | -5 | -30 | -3 | 15 |
| Port 1 | MM | 5km | - | 4651-x | 1310 | -24 | -14 | -31 | -14 | 7 |
| Port 2 | SM / SF | 20km | | | Tx 1550 Rx 1310 | -15 | -5 | -30 | -3 | 15 |

Power Adapter Kits (-x): -0 = No power adapter included, -1 = 110-120 VAC/60 Hz (US plug), -2 = 100-240 VAC/50-60 Hz (IEC plug, no power cord)
For other power and fiber configurations, contact the factory.

*When using these models in pairs, a minimum attenuation of 3dB is required.

Trademarks are owned by their respective companies. FlexPoint is a trademark of Omnitron Systems Technology, Inc.
Specifications subject to change without notice. ©1998-2007 Omnitron Systems Technology, Inc.

091-04450-004C 12/07

OST Omnitron Systems
Technology, Inc.

LANOPIA GmbH • Tel. +49-8258-9974-0 • Fax +49-8258-9974-120 • www.lanopia.de • info@lanopia.de