

### ***iConverter* xFF** SFP to SFP Protocol-Transparent Fiber Converter

The *iConverter* xFF is a protocol-transparent media converter that provides reliable and cost-effective conversion between different wavelengths, multimode and single-mode, and dual and single-fiber.

The *iConverter* xFF operates as a protocol and rate-transparent device, supporting Small Form Pluggable (SFP) transceivers with data rates from 1Mbps to 4.25Gbps. The xFF supports a variety of network protocols, including Ethernet, Fast Ethernet, Gigabit Ethernet, SONET (OC-3/12/48), SDH (STM-1/4/16) and 1x/2x/4x Fibre Channel protocols.

The *iConverter* xFF supports multimode, single-mode and single-fiber SFP transceivers. SFPs allow adaptability to different fiber types, distances and wavelengths, providing maximum flexibility across a variety of network architectures and topologies. The same xFF media converter can utilize a variety of SFPs for different wavelengths and distances, reducing costs and simplifying inventories.

SFP transceivers enable the xFF to operate as a Coarse Wave Division Multiplexing (CWDM) transponder, which converts an optical signal from legacy fiber equipment to a specific CWDM wavelength. CWDM technology increases the bandwidth capacity of the fiber infrastructure by overlaying multiple signals, each using a different wavelength, over an existing fiber link.

There is no manual configuration required with the plug-and-play *iConverter* xFF. Connect the fiber cables to the appropriate interface and the installation is complete.

The xFF features user-selectable Link Propagate and Remote Fault Detection modes to facilitate quick fault detection, isolation and reporting.

The *iConverter* xFF is available as a compact, unmanaged standalone unit, or a chassis plug-in module that can be managed with a management module installed in the chassis. The hot-swappable, plug-in module can be mounted in a 19 or 5-Module chassis with any combination of redundant AC and DC power supplies. It can also be mounted in a 2-Module AC or DC powered chassis, or in a 1-Module chassis with AC or DC power input.

The standalone *iConverter* xFF is an unmanaged wall-mount unit. The wall-mount models are DC powered and are available with an external AC/DC power adapter, or a terminal connector for DC power.



### **KEY FEATURES**

- SFP to SFP protocol-transparent fiber converter
- Supports Ethernet, Fast Ethernet, Gigabit Ethernet, SONET (OC-3/12/48), SDH (STM-1/4/16) and 1x/2x/4x Fibre Channel applications
- Supports SFP Digital Diagnostic Monitoring Interface (DDMI) bus
- Provides multimode to single-mode and dual to single-fiber media conversion
- Provides wavelength conversion for CWDM applications
- User-selectable link fault detection modes facilitate quick fault detection, isolation and reporting
- Management is available with the addition of a management module to the chassis
- SNMP management via *NetOutlook*<sup>®</sup> provides real-time port and module information, configuration and trap notification
- Modules are hot-swappable in 19-Module, 5-Module, 2-Module or 1-Module chassis
- LED displays for immediate visual status of each port
- Conforms to IEEE 802.3 specifications
- Lifetime Warranty and free 24/7 Technical Support

# MANAGEMENT

Management of the plug-in module is accomplished by using a Management Module<sup>1</sup> (such as an *iConverter* NMM2 or 10/100M2) that provides monitoring, configuration and trap notification. The management module can be accessed via SNMP, Telnet, or serial port. The SNMP-based management is accomplished via Omnitron's intuitive, graphic-oriented management software or third party SNMP management software, while the Telnet and the serial interfaces have an easy-to-use, menu-driven interface.

Real-time xFF parameters that can be monitored include power, link, data receive status, module type and model, hardware and software revisions, serial numbers and a user-defined identifier.

The user can override the xFF module's physical DIP-switch settings by using SNMP or Telnet to configure DIP-switch-selectable parameters such as Link Propagate or Remote Fault Detection.

In addition to all standard *iConverter* SNMP traps such as module insertion and removal, the xFF modules can generate traps on port state changes including link-up and link-down. Trap monitoring of specific events can be selectively enabled or disabled by the network administrator.

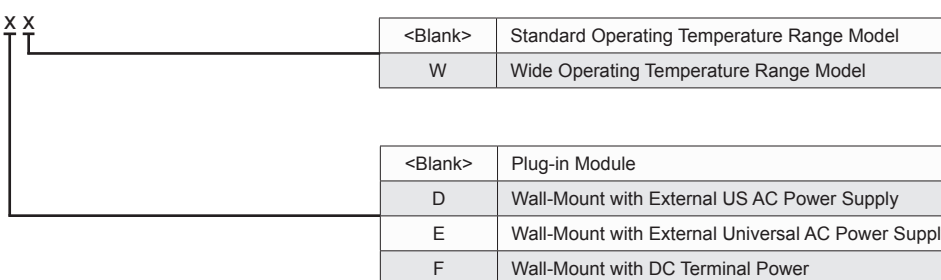
<sup>1</sup> For complete management support, use a M2 series module (NMM2, GX/TM2, 2GXM2, 10/100M2, 2FXM2) or higher.

# SPECIFICATIONS

Model Type	<i>iConverter</i> xFF
Protocols	Protocol Transparent up to 4.25Gbps: Ethernet (100BASE-X, 1000BASE-X) SONET (OC-3, OC-12, OC-48) SDH (STM-1, STM-4, STM-16) Fibre Channel (1x, 2x, 4x)
Compliance	UL, FCC Class A, CE
Fiber Connectors	SFP - LC
Controls	LP, RFD
LED Displays	Power, FO link (2)
Dimensions	Plug-in: W 0.85" x D 4.5" x H 2.8" Standalone: W 3.8" x D 4.8" x H 1.0"
Weight	Plug-in: 8 oz. Standalone without Power Adapter: 1.0 lb. Standalone with Power Adapter: 1.5 lb.
DC Power Connector	Plug-in: Power supplied by backplane Standalone: 2.5mm Barrel Connector or 2 Pin Terminal Connector
DC Power Requirement (typical)	Plug-in: 0.5A @ 3.3VDC Standalone: 5 - 32VDC 0.3A @ 9VDC (1.0A max)
AC Power Adapter [US]	Plug-in: N/A Standalone: 100 - 120VAC/60Hz 0.05A @ 120VAC
AC Power Adapter [Universal]	Plug-in: N/A Standalone: 100 - 240VAC/50 to 60Hz 0.05A @ 120VAC
Temperature	Standard: 0° to 50° C Wide: - 40° to 60° C Storage: - 40° to 80° C
Humidity	5 to 95% (non-condensing)
Altitude	- 100m to 4000m
MTBF (hrs)	Plug-in: 1,300,000 Standalone w/ US Power Adapter: 250,000 Standalone w/ Universal Adapter: 100,000

# ORDERING INFORMATION

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Order the appropriate SFPs separately. [Visit the Omnitron Optical Transceivers web page.](#)