

### ***iConverter* 100FF**

#### **100BASE-FX Single-Mode to Multimode Managed Fiber Converter**

The *iConverter* 100FF managed media converter provides multimode to single-mode and dual fiber to single fiber conversion, and is a cost-effective solution for extending fiber network distances.

*iConverter* 100FF models are available with multimode, single-mode and single-fiber options. The single-mode fiber port supports ST or SC connectors and distances up to 120km. The multimode fiber port supports ST or SC connectors and distances up to 5km.

The 100FF features user-selectable Link Propagate and Remote Fault Detection modes to facilitate quick fault detection, isolation and reporting.

The *iConverter* 100FF is available as a compact, unmanaged standalone unit, or as 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 high-density 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 100FF can be wall-mounted and is DC powered. It can be ordered with an external AC/DC power adapter, or it can be directly powered using a 2-pin terminal connector.



The *iConverter* Multi-Service Platform consists of Network Interface Devices, T1/E1 multiplexers, CWDM multiplexers and managed media converters that combine to deliver Carrier Ethernet and TDM services over fiber or CWDM wavelengths. This flexible architecture supports a wide variety of configurations for scalable and reliable fiber connectivity in Service Provider and Enterprise networks.



### **KEY FEATURES**

- 100BASE-FX single-mode to multimode fiber converter
- Supports multimode, single-mode and single-fiber with SC and ST connectors
- Supports distances of 120km or longer\*
- 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, remote parameter 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 and 100BASE-FX specifications
- Lifetime Warranty and free 24/7 Technical Support

\*Contact Omnitron

## SPECIFICATIONS

<b>Model Type</b>	<b><i>iConverter</i> 100FF</b>
<b>Protocols</b>	100BASE-FX
<b>Compliance</b>	UL, FCC Class A, CE, NEBS Level 3
<b>Fiber Connectors</b>	SC, ST, Single-Fiber SC
<b>Controls</b>	LP, RFD
<b>LED Displays</b>	Power, FO link (2)
<b>Dimensions</b>	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"
<b>Weight</b>	Plug-in: 8 oz. Standalone without Power Adapter: 1.0 lb. Standalone with Power Adapter: 1.5 lb.
<b>DC Power Connector</b>	Plug-in: Power supplied by backplane Standalone: 2.5mm Barrel Connector or 2 Pin Terminal Connector
<b>DC Power Requirement (typical)</b>	Plug-in: 0.5A @ 3.3VDC Standalone: 5 - 32VDC 0.3A @ 9VDC (1.0A max)
<b>AC Power Adapter [US]</b>	Plug-in: N/A Standalone: 100 - 120VAC/60Hz 0.05A @ 120VAC
<b>AC Power Adapter [Universal]</b>	Plug-in: N/A Standalone: 100 - 240VAC/50 to 60Hz 0.05A @ 120VAC
<b>Temperature</b>	Standard: 0° to 50° C Wide: - 40° to 60° C Storage: - 40° to 80° C
<b>Humidity</b>	5 to 95% (non-condensing)
<b>Altitude</b>	- 100m to 4000m
<b>MTBF (hrs)</b>	Plug-in: 1,600,000 Standalone with US Power Adapter: 250,000 Standalone with Universal Adapter: 100,000

## MANAGEMENT

Management of the plug-in module is accomplished by using a Management Module (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 *NetOutlook* 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 100FF 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 100FF module's physical DIP-switch settings by using SNMP or Telnet to configure DIP-switch-selectable parameters such as link modes. In addition to all standard *iConverter* SNMP traps such as module insertion and removal, the 100FF 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.

# ORDERING INFORMATION

86xx - x - x x

<Blank>	Standard Operating Temperature Range Model
W	Wide Operating Temperature Range Model

<Blank>	Plug-in Module
D	Wall-Mount with External US AC Power Supply
E	Wall-Mount with External Universal AC Power Supply
F	Wall-Mount with DC Terminal Power

Port	Fiber Type	Distance	Connector Type		Wavelength [nm]	Min. Tx Power (dBm)	Max. Tx Power (dBm)	Min. Rx Sensitivity (dBm)	Max. Rx Sensitivity (dBm)	Min. Attenuation (dB)	Link Budget (dB)
			ST/ST, ST/SC SF	SC/SC, SC/SC SF							
Port 1	MM	2km	-	8622-61	850	-10	-4	-24	-3	-	14
Port 2	SM	30km			1310	-15	-8	-31	-8	-	16
Port 1	MM	5km	8620-1	8622-1	1310	-24	-14	-31	-14	-	7
Port 2	SM	30km			1310	-15	-8	-31	-8	-	16
Port 1	MM	5km	8620-2	8622-2	1310	-24	-14	-31	-14	-	7
Port 2	SM	60km			1310	-5	0	-31	-3	3	26
Port 1	MM	5km	-	8622-3	1310	-24	-14	-31	-14	-	7
Port 2	SM	120km			1550	-5	0	-31	-3	3	26
Port 1	MM	5km	8630-1	8634-1	1310	-24	-14	-31	-14	-	7
Port 2	SM / SF	20km			Tx 1310 Rx 1550	-15	-5	-30	-3	-	15
Port 1	MM	5km	8631-1	8635-1	1310	-24	-14	-31	-14	-	7
Port 2	SM / SF	20km			Tx 1550 Rx 1310	-15	-5	-30	-3	-	15
Port 1	MM	5km	8630-2	8634-2	1310	-24	-14	-31	-14	-	7
Port 2	SM / SF	40km			Tx 1310 Rx 1550	-8	0	-30	-3	3	22
Port 1	MM	5km	8631-2	8635-2	1310	-24	-14	-31	-14	-	7
Port 2	SM / SF	40km			Tx 1550 Rx 1310	-8	0	-30	-3	3	22
Port 1	SM	30km	8632-1	8636-1	1310	-15	-8	-31	-8	-	16
Port 2	SM / SF	20km			Tx 1310 Rx 1550	-15	-5	-30	-3	-	15
Port 1	SM	30km	8633-1	8637-1	1310	-15	-8	-31	-8	-	16
Port 2	SM / SF	20km			Tx 1550 Rx 1310	-15	-5	-30	-3	-	15
Port 1	SM	30km	8632-2	8636-2	1310	-15	-8	-31	-8	-	16
Port 2	SM / SF	40km			Tx 1310 Rx 1550	-8	0	-30	-3	3	22
Port 1	SM	30km	8633-2	8637-2	1310	-15	-8	-31	-8	-	16
Port 2	SM / SF	40km			Tx 1550 Rx 1310	-8	0	-30	-3	3	22

For wide temperature (-40 to 60° C), add a "W" to the end of the model number. Consult factory for other fiber configurations and extended temperature (-40 to +75° C) models. When using single-fiber (SF) media converter models, the Tx wavelength on one end has to match the Rx wavelength on the other.