iConverter OC3FF
Multimode to Single-Mode Managed Fiber Converter

The *iConverter* OC3FF 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 OC3FF models are available with multimode, single-mode, and single-fiber options. The multimode fiber port supports ST or SC connectors and distances up to 5km. The single-mode fiber port supports ST or SC connectors and distances up to 120km.

User-selectable Link Propagate and Remote Fault Detection modes facilitate quick fault detection, isolation and reporting.

The *iConverter* OC3FF 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 OC3FF 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

■ OC-3 multimode to single-mode fiber converter

■ Supports multimode, single-mode, and single-fiber with SC and ST connectors

■ Supports distances of 120km or longer*

■ Support for OC3 over ATM or SONET

■ SNMP management via *NetOutlook*® provides real-time port and module information, remote parameter configuration and trap notification

■ Management is available with the addition of a management module to the chassis

■ User-selectable link fault detection modes facilitate quick fault detection, isolation, and reporting

■ Modules are hot-swappable in 19-Module, 5-Module, 2-Module or 1-Module chassis

■ LED displays for immediate visual status of each port

■ Lifetime Warranty and free 24/7 Technical Support

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Model Type	*iConverter* OC3FF	
Protocols	OC-3	
Compliance	UL, FCC Class A, CE, NEBS Level 3	
Fiber Connectors	ST, SC, Single-Fiber SC	
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:	1,600,000
	Standalone with US Power Adapter:	250,000
	Standalone with Universal Adapter:	100,000

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 OC3FF 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 OC3FF 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 OC3FF 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.

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<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	Connector Type		Fiber Type	Distance	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	8660-1	8661-1	MM	5km	1310	-24	-14	-31	-14	-	7
Port 2			SM	30km	1310	-15	-8	-31	-8	-	16
Port 1	8660-2	8661-2	MM	5km	1310	-24	-14	-31	-14	-	7
Port 2			SM	60km	1310	-5	0	-31	-3	3	26
Port 1	-	8661-3	MM	5km	1310	-24	-14	-31	-14	-	7
Port 2			SM	120km	1550	-5	0	-31	-3	3	26
Port 1	-	8661-61	MM	2km	850	-10	-4	-24	-3	-	14
Port 2			SM	30km	1310	-15	-8	-31	-8	-	16
Port 1	8670-1	8674-1	MM	5km	1310	-24	-14	-31	-14	-	7
Port 2			SM / SF	20km	Tx 1310 Rx 1550	-15	-5	-30	-3	-	15
Port 1	8671-1	8675-1	MM	5km	1310	-24	-14	-31	-14	-	7
Port 2			SM / SF	20km	Tx 1550 Rx 1310	-15	-5	-30	-3	-	15
Port 1	8670-2	8674-2	MM	5km	1310	-24	-14	-31	-14	-	7
Port 2			SM / SF	40km	Tx 1310 Rx 1550	-8	0	-30	-3	3	22
Port 1	8671-2	8675-2	MM	5km	1310	-24	-14	-31	-14	-	7
Port 2			SM / SF	40km	Tx 1550 Rx 1310	-8	0	-30	-3	3	22
Port 1	8672-1	8676-1	SM	30km	1310	-15	-8	-31	-8	-	16
Port 2			SM / SF	20km	Tx 1310 Rx 1550	-15	-5	-30	-3	-	15
Port 1	8673-1	8677-1	SM	30km	1310	-15	-8	-31	-8	-	16
Port 2			SM / SF	20km	Tx 1550 Rx 1310	-15	-5	-30	-3	-	15
Port 1	8672-2	8676-2	SM	30km	1310	-15	-8	-31	-8	-	16
Port 2			SM / SF	40km	Tx 1310 Rx 1550	-8	0	-30	-3	3	22
Port 1	8673-2	8677-2	SM	30km	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 media converters models, the Tx wavelength on one end has to match the Rx wavelength on the other.

Omnitron Systems Technology, Inc.

800-675-8410 • 949-250-6510 • www.omnitron-systems.com • info@omnitron-systems.com • 140 Technology Dr., Irvine, CA 92618