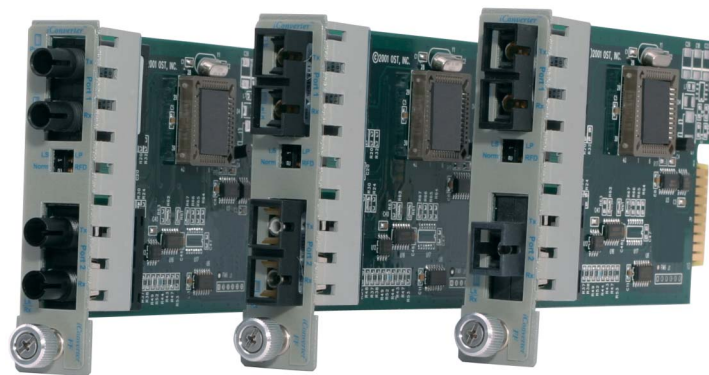# *iConverter*

iConverter® 100FF
100BASE-FX Single-Mode to Multimode Managed Fiber Converter

The *iConverter* 100FF managed media converters are members of the modular *iConverter* product family. The 100FF provides single-mode to multimode fiber conversion and is a cost-effective solution to extending network distances by connecting multimode fiber network devices over single-mode fiber cabling.

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.

iConverter 100FF modules are hot-swappable and can be mounted in a 19-Module (2U high) or 5-Module (1U high) rack-mountable chassis (19-inch or 23-inch) with any combination of redundant AC, 24VDC or 48VDC power supplies. They can also be mounted in a 2-Module AC or 18 to 60VDC powered chassis, or in a 1-Module AC/DC powered chassis.

The *iConverter* family of managed fiber access media converters are used in Service Provider access networks and Enterprise LANs. *iConverter* media converters provide fiber connectivity with copper to fiber, multimode fiber to single-mode fiber, or dual fiber to single-fiber conversions.

- 100BASE-FX single-mode to multimode fiber converter

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

- Supports distances up to 120km

- 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*™ 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

Omnitron Systems Technology, Inc.

SPECIFICATIONS

Model Type	100FF
Protocols	100BASE-FX
Fiber Connectors	SC, ST, Single-Fiber SC
Controls	LP, RFD
LED Displays	Power, FO link (2)
Dimensions	W:0.85" x D:4.5" x H:2.8"
Weight	8 oz.
Compliance	UL, CE, FCC Class A, NEBS Level 3
Power Requirement	0.5A @ 3.3VDC (typical)
Temperature	Standard: 0 to 50º C Wide: -40 to 60º C Storage: -40 to 80º C
Humidity	5 to 95% (non-condensing)
Altitude	-100m to 4000m
MTBF (hrs)	1,600,000

MANAGEMENT

Management is accomplished by using a Network Management Module (NMM) or a media converter with integrated management (such as an *iConverter* 10/100M2) that provides monitoring, remote configuration and trap notification. The management module can be accessed via SNMP, Telnet, and via a serial port. The SNMP-based management is accomplished via Omnitron's intuitive, graphic-oriented *NetOutlook* management software or third party SNMP management software. Management via the Telnet and the serial interfaces have an easy-to-use, menu-driven interface.

Some of the real-time 100FF parameters that can be monitored include power, link and data receive status. Other parameters include 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 remotely 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 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

Model Type	Fiber Type (Port 1 / Port2)	Distance Port 1	Distance Port 2	ST/ST, ST/SC (SF)	SC/SC	Fiber Type Port 1 Port2	Tx Wavelength (nm)	Rx Wavelength (nm)	Min. Tx Power (dBm)	Max. Tx Power (dBm)	Min. Rx Sensitivity (dBm)	Max. Rx Sensitivity (dBm)	Link Budget (dBm)
100FF Dual Fiber	MM / SM	5km	30km	8620-1	8622-1	MM	1310	1310	-24	-14	-31	-14	7
						SM	1310	1310	-15	-8	-31	-8	16
	MM / SM	5km	60km	8620-2	8622-2	MM	1310	1310	-24	-14	-31	-14	7
						SM	1310	1310	-5	0	-31	-3*	26
	MM / SM	5km	120km	-	8622-3	MM	1310	1310	-24	-14	-31	-14	7
						SM	1550	1550	-5	0	-31	-3*	26
100FF Single-Fiber	MM / SM	5km	20km	8630-1	8634-1	MM	1310	1310	-24	-14	-31	-14	7
						SM	1310	1550	-15	-5	-30	-3	15
	MM / SM	5km	40km	8630-2	8634-2	MM	1310	1310	-24	-14	-31	-14	7
						SM	1310	1550	-8	0	-30	-3*	22
	MM / SM	5km	20km	8631-1	8635-1	MM	1310	1310	-24	-14	-31	-14	7
						SM	1550	1310	-15	-5	-30	-3	15
	MM / SM	5km	40km	8631-2	8635-2	MM	1310	1310	-24	-14	-31	-14	7
						SM	1550	1310	-8	0	-30	-3*	22
	SM / SM	30km	20km	8632-1	8636-1	SM	1310	1310	-15	-8	-31	-8	16
						SM	1310	1550	-15	-5	-30	-3	15
	SM / SM	30km	40km	8632-2	8636-2	SM	1310	1310	-15	-8	-31	-8	16
						SM	1310	1550	-8	0	-30	-3*	22
	SM / SM	30km	20km	8633-1	8637-1	SM	1310	1310	-15	-8	-31	-8	16
						SM	1550	1310	-15	-5	-30	-3	15
	SM / SM	30km	40km	8633-2	8637-2	SM	1310	1310	-15	-8	-31	-8	16
						SM	1550	1310	-8	0	-30	-3*	22

For wide temperature (-40 to 60º C), add a "W" to the end of the model number. Consult factory for extended temperature (-40 to +75º 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.
*A minimum of 3dB of attenuation is required for these models.

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