iConverter 100Fx/Tx
100BASE-TX to 100BASE-FX Managed Ethernet Media Converter

The *iConverter* 100Fx/Tx managed media converters are members of the modular *iConverter* product family, and provide 100BASE-TX UTP to 100BASE-FX fiber conversion.

The *iConverter* 100Fx/Tx models are available with multimode, single-mode and single-fiber options. They support ST, SC and LC connectors. The UTP port supports 100BASE-TX in either Half or Full-Duplex mode. A UTP crossover switch eliminates the need for a crossover cable and facilitates connectivity to network equipment such as hubs, switches and workstations.

The 100Fx/Tx features user-selectable Link Propagate, Link Segment, Remote Fault Detection and Symmetrical Fault Detection modes to facilitate quick fault detection, isolation and reporting.

iConverter 100Fx/Tx 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* 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

- The *iConverter* 100Fx/Tx is an IEEE 802.3 compatible 100BASE-TX UTP to 100BASE-FX fiber converter

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

- UTP port supports Half or Full-Duplex 100Mbps Ethernet

- UTP crossover switch eliminates the need for a crossover cable

- 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

- Lifetime Warranty and free 24/7 Technical Support

Omnitron Systems

SPECIFICATIONS

Model Type	100Fx/Tx
Protocols	100BASE-FX, 100BASE-TX
Copper Connectors	RJ-45
Fiber Connectors	SC, ST, LC, Single-Fiber SC
Controls	UTP X-over, LS/LP, RFD, SFD UTP FDX/HDX, UTP A/N
LED Displays	Power, FO link, UTP link, Auto, FDX/HDX
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	0.7 @ 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)	730,000

MANAGEMENT

Management is accomplished by using a Network Management Module (NMM2) 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 100Fx/Tx 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 100Fx/Tx module's physical DIP-switch settings by using SNMP or Telnet to remotely configure DIP-switch-selectable parameters such as Link Propagate, Link Segment, Remote Fault Detection and Symmetrical Fault Detection.

In addition to all standard *iConverter* SNMP traps such as module insertion and removal, the 100Fx/Tx 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

Type	Distance	Connector Type			Tx [nm]	Rx [nm]	Min. Tx Power [dBm]	Max. Tx Power [dBm]	Min. Rx Power [dBm]	Max. Rx Power [dBm]	Min. Attenuation (dB)	Link Budget [dB]
		ST	SC	LC								
MM/DF	5km	8360-0	8822-0	-	1310	1310	-24	-14	-31	-14	-	7
SM/DF	30km	8361-1	8823-1	8367-1	1310	1310	-15	-8	-31	-8	-	16
SM/DF	60km	8361-2	8823-2	8367-2	1310	1310	-5	0	-31	-3	3	26
SM/DF	120km	-	8823-3	8367-3	1550	1550	-5	0	-31	-3	3	26
SM/SF	20km	-	8370-1	-	1310	1550	-15	-5	-30	-3	-	15
SM/SF	20km	-	8371-1	-	1550	1310	-15	-5	-30	-3	-	15
SM/SF	40km	-	8370-2	-	1310	1550	-8	0	-30	-3	3	22
SM/SF	40km	-	8371-2	-	1550	1310	-8	0	-30	-3	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.

OST Omnitron Systems

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

iConverter 100Fx/Tx   Page 2