

iConverter

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, LC and MT-RJ 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* 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, LC and MT-RJ 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



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.

SPECIFICATIONS

Model Type	100Fx/Tx
Protocols	100BASE-FX, 100BASE-TX
Copper Connectors	RJ-45
Fiber Connectors	SC, ST, LC, MT-RJ, 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	0.7A @ 3.3VDC (typical)
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)	730,000

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 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

Model Type	Fiber Media Type	Distance	Connector Types				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)
			ST	SC	MT-RJ	LC							
100Fx/Tx Dual Fiber	MM	5km	8360-0	8362-0	8364-0	-	1310	1310	-24	-14	-31	-14	7
	SM	30km	8361-1	8363-1	8365-1	8367-1	1310	1310	-15	-8	-31	-8	16
	SM	60km	8361-2	8363-2	-	8367-2	1310	1310	-5	0	-31	-3*	26
	SM	120km	-	8363-3	-	8367-3	1550	1550	-5	0	-31	-3*	26
100Fx/Tx Single-Fiber	SM	20km	-	8370-1	-	-	1310	1550	-15	-5	-30	-3	15
	SM	40km	-	8370-2	-	-	1310	1550	-8	0	-30	-3*	22
	SM	20km	-	8371-1	-	-	1550	1310	-15	-5	-30	-3	15
	SM	40km	-	8371-2	-	-	1550	1310	-8	0	-30	-3*	22

For wide temperature (-40 to 60° C), add a "W" to the end of the model number. Consult factory for 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.

*A minimum of 3dB of attenuation is required for these models.

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