iConverter 10FL/T
### 10BASE-T to 10BASE-FL Managed Ethernet Media Converter

The *iConverter* 10FL/T managed media converters are members of the modular iConverter product family, and provide 10BASE-T UTP to 10BASE-FL fiber conversion.

The *iConverter* 10FL/T models are available with multimode, single-mode and single-fiber options. They support ST, SC, LC and MT-RJ connectors. The UTP port supports 10BASE-T 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 10FL/T features user-selectable Link Propagate and Remote Fault Detection modes to facilitate quick fault detection, isolation and reporting.

iConverter 10FL/T 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.
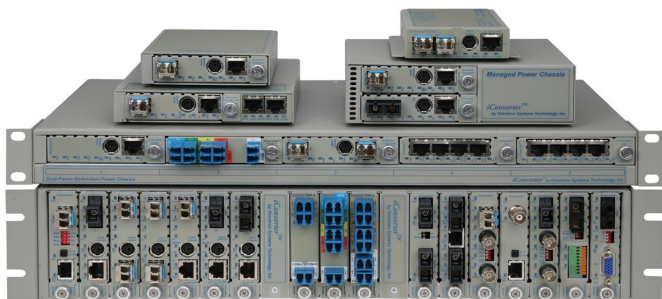
The *iConverter* Multi-Service Platform consists of Network Interface Devices, T1/E1 multiplexers, CWDM multiplexers and managed media converters that combine to deliver Carrier Ethernet and TDM services over fiber or CWDM wavelengths. This flexible architecture supports a wide variety of configurations for scalable and reliable fiber connectivity in Service Provider and Enterprise networks.

KEY FEATURES

- The *iConverter* 10/FLT is an IEEE 802.3 compatible 10BASE-T UTP to 10BASE-FL fiber converter

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

- UTP port automatically supports Half or Full-Duplex 10Mbps 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

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SPECIFICATIONS

Model Type	10FL/T
Protocols	10BASE-FL, 10 BASE-T
UTP Connectors	RJ-45
Fiber Connectors	SC, ST, LC, MT-RJ, Single-Fiber SC
Controls	LP, RFD
LED Displays	Power, F/O Link, UTP Link
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)	830,000

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 10FL/T 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 10FL/T 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 10FL/T 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							
10FL/T Dual Fiber	MM	2km	8300-0	8302-0	-	-	850	850	-21	-11	-31	-11	10
	MM	5km	8300-1	-	8304-1	-	1310	1310	-24	-14	-31	-14	7
	SM	30km	8301-1	8303-1	8305-1	8307-1	1310	1310	-15	-8	-31	-8	16
	SM	60km	8301-2	8303-2	-	8307-2	1310	1310	-5	0	-31	-3*	26
	SM	120km	-	8303-3	-	8307-3	1550	1550	-5	0	-31	-3*	26
10FL/T Single-Fiber	SM	20km	-	8310-1	-	-	1310	1550	-15	-5	-30	-3	15
	SM	40km	-	8310-2	-	-	1310	1550	-8	0	-30	-3*	22
	SM	20km	-	8311-1	-	-	1550	1310	-15	-5	-30	-3	15
	SM	40km	-	8311-2	-	-	1550	1310	-8	0	-30	-3*	22

For wide temperature (-40 to 60º C) modules, add a "W" to the end of the model number. Consult factory for other configurations and extended temperature (-40 to +75º C) modules.
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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