

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 and LC 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 and LC 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

SPECIFICATIONS

Model Type	10FL/T
Protocols	10BASE-FL, 10BASE-T
UTP Connectors	RJ-45
Fiber Connectors	SC, ST, LC, Single-Fiber SC
Controls	LS/LP, RFD
LED Displays	Power, FO 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 50° C Wide: -40 to 60° C Storage: -40 to 80° 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

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	2km	8300-0	8302-0	-	850	850	-21	-11	-31	-11	-	10
MM/DF	5km	8300-1	-	-	1310	1310	-24	-14	-31	-14	-	7
SM/DF	30km	8301-1	8303-1	8307-1	1310	1310	-15	-8	-31	-8	-	16
SM/DF	60km	8301-2	8303-2	8307-2	1310	1310	-5	0	-31	-3	3	26
SM/DF	120km	-	8303-3	8307-3	1550	1550	-5	0	-31	-3	3	26
SM/SF	20km	-	8310-1	-	1310	1550	-15	-5	-30	-3	-	15
SM/SF	20km	-	8311-1	-	1550	1310	-15	-5	-30	-3	-	15
SM/SF	40km	-	8310-2	-	1310	1550	-8	0	-30	-3	3	22
SM/SF	40km	-	8311-2	-	1550	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 configurations and 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.