

iConverter

iConverter® 10/100

10BASE-T or 100BASE-TX to Fast Ethernet Managed Media Converter

The *iConverter* 10/100 managed media converters are members of the modular *iConverter* product family, and provide 10BASE-T or 100BASE-TX to 100BASE-FX fiber conversion.

The *iConverter* 10/100 modules are available with multimode, single-mode and single-fiber options, and support ST, SC, MT-RJ and LC connectors. The UTP port supports 10/100 and Half/Full-Duplex auto-negotiation with both hardware and software manual override. A UTP crossover switch eliminates the need for a crossover cable and facilitates connectivity to network equipment. The 10/100 also features two Ethernet Backplane ports to provide connectivity to adjacent modules for network expansion and for in-band connectivity to an *iConverter* Network Management Module.

The 10/100 features user-selectable Link Propagate, Link Segment and Remote Fault Detection modes to facilitate quick fault detection, isolation and reporting.

iConverter 10/100 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* 10/100 is an IEEE 802.3 compatible 10BASE-T UTP or 100BASE-TX to Fast Ethernet fiber converter
- Supports multimode, single-mode, and single-fiber with ST, SC, LC and MT-RJ connectors
- UTP port with 10/100 automatically supports Half or Full-Duplex auto-negotiation with a manual crossover switch
- 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
- Wide Temperature models available with temperature range of -40 to +60° C
- 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	10/100
Protocols	100BASE-FX, 10BASE-T, or 100BASE-TX
UTP Connectors	RJ-45
Fiber Connectors	SC, ST, LC, MT-RJ, Single-Fiber SC
Controls	UTP X-over, LS/LP, RFD, Auto/Man, 10/100, FDX/HDX
LED Displays	Power, FO link, UTP link, Auto, UTP FDX/HDX, F/O FDX/HDX, 10, 100
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	0.95A @ 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)	1,050,000

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, while the Telnet and the serial interfaces have an easy-to-use, menu-driven interface.

Some of the real-time 10/100 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 an user-defined identifier.

The user can override the 10/100 module's physical DIP-switch settings using SNMP or Telnet to remotely configure DIP-switch-selectable parameters such as auto-negotiation, Half/Full-Duplex, Link Mode selection, and Ethernet Backplane selection.

In addition to all standard *iConverter* SNMP traps such as module insertion and removal, the 10/100 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	Distances	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							
10/100 Dual Fiber	MM	5km	8380-0	8382-0	8384-0	-	1310	1310	-24	-14	-31	-14	7
	SM	30km	8381-1	8383-1	8385-1	8387-1	1310	1310	-15	-8	-31	-8	16
	SM	60km	8381-2	8383-2	-	8387-2	1310	1310	-5	0	-31	-3*	26
	SM	120km	-	8383-3	-	8387-3	1550	1550	-5	0	-31	-3*	26
10/100 Single-Fiber	SM	20km	-	8390-1	-	-	1310	1550	-15	-5	-30	-3	15
	SM	40km	-	8390-2	-	-	1310	1550	-8	0	-30	-3*	22
	SM	60km	-	8390-3	-	-	1310	1550	-5	0	-31	-3*	26
	SM	20km	-	8391-1	-	-	1550	1310	-15	-5	-30	-3	15
	SM	40km	-	8391-2	-	-	1550	1310	-8	0	-30	-3*	22
	SM	60km	-	8391-3	-	-	1550	1310	-5	0	-31	-3*	26

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.