

# iConverter

## ***iConverter*® 10T/2 10BASE-T to 10BASE-2 Managed Ethernet Media Converter**

The *iConverter* 10T/2 is a 10BASE-T to 10BASE-2 media converter that converts between twisted pair (UTP) and coax LANs and joins their collision domains. The *iConverter* 10T/2 facilitates the connection of a coax segment to a 10BASE-T hub. When using a pair of *iConverter* 10T/2 converters back to back, they can connect between two 10BASE-T hubs via coax.

The UTP port has a modular EIA/TIA 568 RJ-45 connector that supports categories 3 to 5 wiring and connects to distances up to 100m. The *iConverter* 10T/2 detects and corrects wiring polarity reversals, and features a crossover switch that facilitates a straight-through cable connection to a workstation or a hub, eliminating the need for a crossover cable.

The coax port has a BNC connector and supports a 50 ohm cable and distances of up to 185m. Per IEEE 802.3 standard, up to 30 workstations can be attached to the coax segment. The *iConverter* 10T/2 features a convenient and cost-effective cable termination via a termination switch and a built-in termination element.

The *iConverter* 10T/2 module is 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. It 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* 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.



- The *iConverter* 10T/2 is an IEEE 802.3 compatible 10BASE-T unshielded twisted pair (UTP) to 10BASE-2 coax converter
- Seamlessly connects 10BASE-T hubs via coax and coax network segments to 10BASE-T hubs
- SNMP management via *NetOutlook*™ provides real-time port and module information, remote parameter configuration and trap notification
- Management is available with the addition of a management module to the chassis
- Supports 50 ohm coax to a maximum distance of 185m and 30 stations
- Features a UTP crossover switch and automatic polarity detection and correction
- Features switch-selectable coax line termination for convenience, space and cost saving
- LED displays for immediate visual status of each port
- Lifetime Warranty and free 24/7 Technical Support

# SPECIFICATIONS

<b>Model Type</b>	<b>10T/2</b>
<b>Protocols</b>	10BASE-T and 10BASE-2
<b>Connectors</b>	RJ-45 and BNC
<b>UTP Cable</b>	Categories 3, 4, 5 (EIA/TIA 568)
<b>BNC Cable</b>	50 ohm, RG-58/U, RG-58C/U, RG-58/U or equivalent
<b>Controls</b>	Coax Termination, Backplane Enables
<b>LED Displays</b>	Power, Coax Collision, Coax Activity, UTP Link/Activity
<b>Dimensions</b>	W:0.85" x D:4.5" x H:2.8"
<b>Weight</b>	8 oz.
<b>Compliance</b>	UL, CE, FCC Class A
<b>Power Requirement</b>	1.0A @ 3.3VDC (typical)
<b>Temperature</b>	Standard: 0 to 50° C Wide: -40 to 60° C Storage: -40 to 80° C
<b>Humidity</b>	5 to 95% (non-condensing)
<b>Altitude</b>	-100m to 4000m
<b>MTBF (hrs)</b>	722,000

# ORDERING INFORMATION

Model Type	Connectors	Distance
8340-0	UTP	100m
	Coax	185m

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

# MANAGEMENT

Management is accomplished by installing a Network Management Module (NMM) or a media converter with integrated management (such as an *iConverter* 10/100M2) in the chassis with the 10T/2. Management 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 10T/2 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 10T/2 module's physical switch settings using SNMP or Telnet to remotely configure switch-selectable parameters such as Backplane Selection.

In addition to all standard *iConverter* SNMP traps such as module insertion and removal, the 10T/2 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.

# CHASSIS OPTIONS

Configuration	19-Module			5-Module			2-Module		1-Module	
	AC	24VDC	48VDC	AC	24VDC	48VDC	AC	18-60 VDC	US AC	Universal AC
One (1) Power Supply	8200-1	8206-1	8205-1	8220-1	8226-1	8225-1	8230-0	8235-0	8240-1	8240-2
One (1) Power Supply w/ Dying Gasp Support	--	--	--	--	--	--	8230-1	8235-1	8241-1	8241-2
Two (2) Power Supplies	8200-2	8206-2	8205-2	8220-2	8226-2	8225-2	--	--	8245-111*	8245-112*
Three (3) Power Supplies	8200-3	8206-3	8205-3	--	--	--	--	--	--	--
Spare Power Supply	8200-9	8206-9	8205-9	8220-9	8226-9	8225-9	--	--	--	--
23" Rack Mounting Kit	8091-2	8091-2	8091-2	8092-2	8092-2	8092-2	--	--	--	--
Blank Module Panel	8090-0	8090-0	8090-0	8090-0	8090-0	8090-0	8090-0	8090-0	--	--
Wall-Mounting Hardware Kit	--	--	--	--	--	--	8249-0	8249-0	8249-0	8249-0
DIN-Rail Mounting Kit	--	--	--	--	--	--	--	--	8250-0	8250-0

\*Please refer to the *iConverter* 1-Module Redundant Power Chassis data sheet for additional model numbers and ordering options. 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.

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