

iConverter® 10T/2

10BASE-T to 10BASE-2 Managed Ethernet Media Converter

The iConverter 10T/2 managed media converters are members of the modular iConverter product family, and provide 10BASE-T copper to 10BASE-2 coax conversion.

The RJ-45 port supports distances up to 100 meter on twisted pair cabling. 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 50 ohm BNC connector that supports 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 line termination.

The iConverter 10T/2 can be used in managed or unmanaged applications. Management provides remote configuration, monitoring and trap notification. Management of the 10T/2 is accomplished by installing an iConverter Management Module (NMM2) or Network Interface Device (NID) in the same chassis.

The management software can override the physical DIP-switch settings such as coax termination or enable/disable backplane. The module supports SNMP trap notification for the monitoring and notification of different network events.

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 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 or DC powered chassis.



The iConverter Multi-Service Platform consists of Network Interface Devices, T1/E1 multiplexers, CWDM/DWDM multiplexers and managed media converters that combine to deliver Carrier Ethernet and TDM services over fiber or CWDM/DWDM wavelengths.



KEY FEATURES

- 10BASE-T copper to 10BASE-2 coax converter
- Seamlessly connects 10BASE-T hubs via coax and coax network segments to 10BASE-T hubs
- 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
- Modules are hot-swappable in 19-Module, 5-Module, 2-Module or 1-Module chassis
- Management is available with the addition of a management module to the chassis
- SNMP management via NetOutlook® provides real-time port and module status information, remote parameter configuration and trap notification
- Commercial (0 to 50°C) and wide (-40 to 60°C) temperature ranges
- TAA, BAA and NDAA compliant, and Made in the USA
- Lifetime Warranty and free 24/7 Technical Support

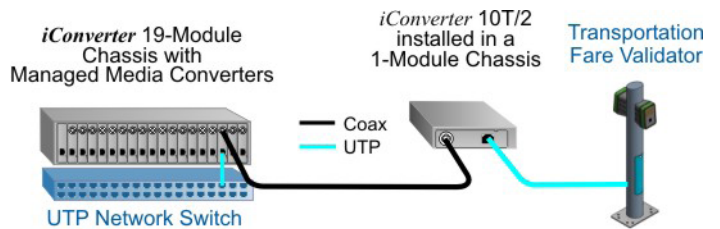
SPECIFICATIONS

Description	<i>iConverter 10T/2</i> 10BASE-T to 10BASE-2 Media Converter	
Standard Compliances	IEEE 802.3	
Regulatory Compliances	Safety:	UL, cUL, CE, NEBS Level 3, UKCA
	EMI:	FCC Class A
	ACT:	TAA, BAA, NDAA
Environmental	RoHS, WEEE, REACH	
Frame Size	Unlimited	
Port Types	Copper:	10BASE-T (RJ-45)
	Coax:	10BASE-2 (BNC)
Cable Types	Copper:	EIA/TIA 568A/B, Cat 5 UTP and higher
	Coax:	50 ohm RG-58U or equivalent
DC Power Requirements	DC Input: (Backplane)	3.3VDC, 1.0A @ 3.3VDC
Dimensions W x D x H	0.85" x 4.5" x 2.8" (21.6 mm x 114.3 mm x 71.1 mm)	
Weight	8 oz. (226.8 grams)	
Temperature	Commercial:	0 to 50°C
	Wide:	-40 to 60°C
	Storage:	-40 to 80°C
Humidity	5 to 95% (non-condensing)	
Altitude	-100m to 4,000m	
MTBF (hrs)	720,000	
Warranty	Lifetime warranty and 24/7/365 free Technical Support	

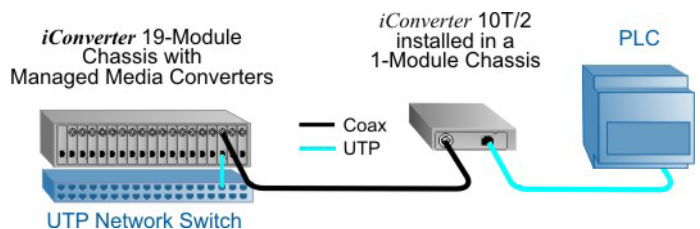
APPLICATIONS

In the application below, a *iConverter 10T/2* media converter is used to connect a Transportation Fare Validator that has an RJ-45 UTP port to the existing coax infrastructure. The *iConverter 10T/2* converts the 10BASE-T RJ-45 connection from the Fare Validator to 10BASE-2 coax.

At the head end, the *iConverter 10T/2* installed in a high-density 19-Module chassis converts the coax back to UTP and provides connectivity to the Network Switch.



In this second application, *iConverter 10T/2* media converters can be used to connect PLC devices in industrial and manufacturing environments. The *iConverter 10T/2* are available in commercial (0 to 50°C) and wide (-40 to 60°C) temperature ranges to accommodate various installation environments.



ORDERING INFORMATION

Step 1: Choose a Base Part Number (xxxx-xt)

Model Number	Description
8340-0t	10BASE-T RJ-45 (100 meters) to 10BASE-2 Coax (185 meters) Media Converter

Contact Omnitron for other configurations, extended temperature range and RoHS (5/6) compliant models.

Step 2: Choose an Operating Temperature Range (xxxx-xt)

<leave blank> = Commercial temperature (0 to 50°C)
W = Wide temperature (-40 to 60°C)

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