iConverter® STM 1

STM-1/OC-3 Coax to Fiber Media Converter

The iConverter STM 1 copper to fiber media converter converts 155.52Mbps STM-1e coax to STM-1 fiber, and is available as a compact, unmanaged standalone unit or a managed chassis plug-in module. The iConverter STM1 can be used in Telecom or Enterprise applications where STM-1 or OC-3 transport is required beyond the maximum distance of copper (approximately 70m).

The fiber port accepts any standard, MSA compatible 155.52Mbps Small Form Pluggable (SFP). Please refer to Omnitron's SFP data sheets for standard STM-1/OC-3 and CWDM wavelength SFPs for ordering information.

The copper port provides two mini-BNC 75Ω coax connectors that comply with the ITU-T G.703 and Telcordia GR-253 standards for CMI coded 155.52Mbps electrical interfaces. Adapter cables are included to convert the mini-BNC connectors to standard BNC type connectors.

iConverter STM-1 media converters are available as compact, unmanaged standalone units, or chassis plug-in modules that can be managed with a Management Module (NMM2) or Network Interface Device (NID) installed in the chassis. The management module provides access to all the advanced features on the module.

The management software can override the physical DIP-switch settings such as link modes. Some of the real-time STM-1 parameters that can be monitored include power, link, data activity status, module type and model, hardware and software revisions, serial numbers and a user-defined identifier.

The STM-1 standalone models are available with an external AC to DC power adapter or with a 2-pin terminal connector for direct connection to DC power. The standalone module can be DIN-Rail mounted using the optional DIN-Rail mounting clips (8251-0).

The hot-swappable plug-in module can be mounted in a high-density 19 or 5-Module chassis with redundant AC and DC power supplies. It can also be mounted in a 2-Module or in a 1-Module chassis with AC or DC power input.

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.

Fiber SFP transceiver not included

KEY FEATURES

- Converts STM-1 or OC-3 75Ω coax to fiber
- Features standard STM-1e coax interface with mini-BNC connectors
- Adapter cables convert to standard BNC type connectors
- Features standard STM-1 (or OC-3) optical interface
- Standalone or plug-in module
- Per port LED status display
- Plug-in modules are hot-swappable in 19-Module, 5-Module, 2-Module or 1-Module chassis
- Management of the plug-in module 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
- Made in the USA
- Lifetime Warranty and free 24/7 Technical Support

SPECIFICATIONS

Description	***iConverter* STM 1** STM-1/OC-3 Coax to Fiber Media Converter	
Standard Compliances	SONET OC-3, SDH STM-1 ITU-T-G.957, Telcordia GR-253 ITU-T G.703, Telcordia GR-253 for CMI coded 155.52Mbps.	
Regulatory Compliances	UL, CE, FCC Class A	
Environmental	RoHS, WEEE, REACH	
Port Types	Coax: Fiber:	155.52Mbps electrical (mini-BNC) SONET OC-3 SDH STM-1 (SFP)
Cable Types	Coax: Fiber:	75 ohm coax Mini-BNC to BNC adapter cables included Multimode: 50/125µm, 62.5/125µm Single-mode: 9/125µm
AC Power Requirements	AC Adapter: (US)	100 - 240VAC/50 - 60Hz 0.05A @ 120VAC
	AC Adapter: (Universal)	100 - 240VAC/50 - 60Hz 0.05A @ 120VAC
DC Power Requirements	DC Input: (Backplane)	3.3VDC, 0.5A @ 3.3VDC
	DC Input: (Terminal Block)	7 - 32VDC, 0.3A @ 9VDC (1.0A max) 2-Pin Terminal (non-isolated)
	DC Input: (AC Adapter)	7 - 32VDC, 0.3A @ 9VDC (1.0A max) 2.5mm Barrel Connector

Dimensions W x D x H	Plug-in: Standalone:	0.85" x 4.5" x 2.8" (21.6 mm x 114.3 mm x 71.1 mm) 3.8" x 4.8" x 1.0" (96.5 mm x 121.9 mm x 25.4 mm)
Weight	Plug-in: Standalone w/o Adapter: Standalone w Adapter:	8 oz. (226.8 grams) 1.0 lb. (453.6 grams) 1.5 lbs. (680.4 grams)
Temperature	Commercial: Wide: Storage:	0 to 50°C -40 to 60°C -40 to 80°C
Humidity	5 to 95% (non-condensing)	
Altitude	-100m to 4,000m	
MTBF (hrs)	Plug-in: Standalone w/o Adapter: Standalone w/ US Adapter: Standalone w/ Uni Adapter:	380,000 370,000 250,000 100,000
Warranty	Lifetime warranty with 24/7/365 free Technical Support	

Mini-BNC to BNC adapter cables included with the STM1 media converter.

ORDERING INFORMATION

Model Number	Description
8899S-0-pt	SFP to mini-Coax Protocol-Transparent Fiber Converter
Power Options (p):	
<leave blank> = Plug-in module	
D = Barrel Connector and AC/DC Power Adapter 100-240VAC, 50-60Hz, with US power cord, with integrated mounting brackets	**F** = Direct DC input, 2 pin terminal connector, no AC/DC power adapter, with integrated mounting brackets
E = Barrel Connector and Universal AC/DC Adapter, 100 - 240 VAC, 50-60Hz, No Power Cord, with integrated mounting brackets	
Operating Temperature Options (t):	
<leave blank> = Commercial temperature (0 to 50°C)	**W** = Wide temperature (-40 to 60°C)
Contact Omnitron for other configurations and extended temperature (-40 to 75°C) models. Order the appropriate Fast Ethernet SFPs separately. Visit the Omnitron Optical Transceivers web page. See chassis and mounting options at: iConverter Chassis and Mounting Option web page.	

Model Number	Description
8251-0	DIN-Rail Mounting Clips for standalone models with integrated mounting brackets
8260-0	19" 1U Rack Mount Shelf for Standalone Modules (up to 4 converters)

Omnitron Systems

800-675-8410 • 949-250-6510 • www.omnitron-systems.com • info@omnitron-systems.com • 38 Tesla, Irvine, CA 92618, USA