iConverter

iConverter® Gx AN 1000BASE-T to 1000BASE-SX/LX Managed Media Converter

The *iConverter* Gx AN Media Converter is a managed media converter that provides 1000BASE-T UTP to 1000BASE-X fiber conversion between Gigabit networking devices.

The UTP port supports auto-negotiation or forced negotiation of duplex modes and pause capability while the fiber port supports both manual or auto-negotiation.

The *iConverter* Gx AN features user-selectable link fault detection modes, including Link Propagate, Link Segment and Remote Fault Detection. These Link Modes provide rapid fault detection and isolation by monitoring the state of the cabling hardware, and operate independently of the network management.

Fixed-fiber connectors are available with multimode (MM) dual fiber, single-mode (SM) dual fiber and single-mode single-fiber (SF) options. They support ST, SC, LC and MT-RJ connectors with distances up to 220/550m over MM fiber, 140km over SM fiber and 40km over SF. The Gx AN Small Form Pluggable (SFP) model supports a wide variety of 1000BASE-X SFP transceivers.

The *iConverter* Gx AN is available as a compact, unmanaged standalone unit or as a chassis managed plug-in module. The hot-swappable plug-in module can be mounted in a 19 or 5-Module chassis with any combination of redundant AC and DC power supplies. It can also be mounted in a 2-Module AC or DC powered chassis, or in a 1-Module chassis with AC or DC power input.

As a standalone unit, the Gx AN is available as a tabletop or wall-mount unit. The tabletop model can be DIN-rail mounted using an optional DIN-rail mounting kit. Both the tabletop and the wall-mount models are DC powered and are available with an external AC/DC power adapter or a terminal connector for DC power.



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* Gx AN is an IEEE 802.3ab compatible 1000BASE-T UTP to 1000BASE-X fiber converter
- Small Form Pluggable (SFP) transceivers with Optical Statistics for standard or CWDM applications
- Fixed-fiber connectors available for multimode and single-mode dual fiber and single-mode single-fiber
- UTP auto or forced negotitaion of duplex modes and pause capabilities
- Fiber port supports auto or manual negotiation
- User-selectable link fault detection modes facilitate quick fault detection, isolation and reporting
- Management of the plug-in module is available with the addition of a management module to the chassis
- SNMP management via NetOutlook® provides module information, remote parameter configuration and trap notification
- Plug-in 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	Gx AN					
Protocols	1000BASE-SX/LX,1000BASE-T with unlimited frame size					
UTP Connectors	RJ-45					
Fiber Connectors	Small Form Pluggable (SFP) Fixed-Fiber Connectors: Dual-Fiber: ST, SC, LC, MT-RJ Single-Fiber: SC					
Controls	DIP-switches and LEDs					
DC Power	Plug-in: 0.7A @ 3.3VDC (typical) Standalone: Voltage Range: 8 - 15VDC 0.3A @ 9VDC					
DC Power Connector	Plug-in: Power supllied by backplane Standalone: 2.5mm Barrel Connector or Terminial Connector					
AC Power Adapter [US]	Plug-in: N/A Standalone: 120VAC/60Hz 0.04A @ 120VAC					
AC Power Adapter [International]	Plug-in: N/A Standalone: 100-240VAC/50 to 60Hz 0.04A @ 120VAC					
Dimensions	Plug-in: W:0.85" x D:4.5" x H:2.8" Standalone: W:3.1" x D:4.8" x H:1.0" Wall-Mount: W:3.8" x D:4.8" x H:1.0"					
Weight	Plug-in: 8 oz. Standalone: 1lb					
Compliance	UL, CE, FCC Class A					
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)						
without power adapter	Plug-in: 870,000 Standalone: 1,100,000					
with power adapter	Standalone: US: 250,00 Intl: 100,000					

MANAGEMENT

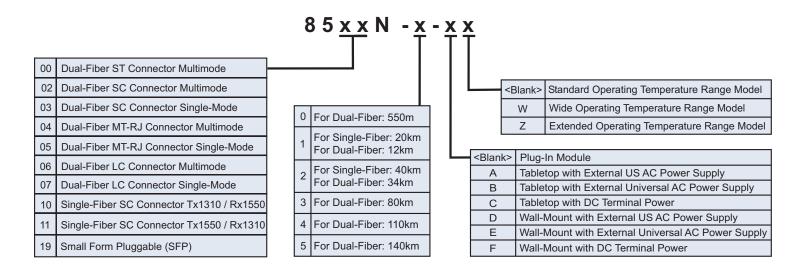
Management of the plug-in module is accomplished by using a Network Management Module (NMM) or a media converter with integrated management (such as an *iConverter* 10/100M2) that provides monitoring, remote configuration and trap notification. The management module can be accessed via SNMP, Telnet and 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. Management via the Telnet and the serial interfaces have an easy-to-use, menu-driven interface.

Some of the real-time Gx AN 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 Gx AN plug-in module's physical switch settings using SNMP or Telnet to remotely configure switch-selectable parameters such as UTP Duplex Mode.

Gx AN plug-in modules can generate SNMP traps for module insertion or removal, and 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



For more information on the variety of SFPs available, visit Omnitron's web site at: www.omnitron-systems.com

Model Type	Fiber Type	Distance	Connector Types				Tx	Rx	Min. Tx	Max. Tx	Min. Rx	Max. Rx	Link	
			ST	sc	MT-RJ	LC	SFP	Wavelength (nm)	Wavelength (nm)	Power (dBm)	Power (dBm)	Sensitivity (dBm)	Sensitivity (dBm)	Budget (dBm)
SFP	-	-	-	-	-	-	8519N-0							
Gx AN Dual Fiber	MM	220 / 550m ¹	8500N-0	8502N-0	8504N-0	8506N-0	-	850	850	-10	-4	-17	-3	7
	SM	12km	-	8503N-1	8505N-1	8507N-1	-	1310	1310	-9.5	-3	-19.5	-3	10
	SM	34km	-	8503N-2	-	8507N-2	-	1310	1310	-5	0	-23	-3*	18
	SM	80km	-	8503N-3	-	8507N-3	-	1550	1550	-5	0	-23	-3*	18
	SM	110km	-	8503N-4	-	-	-	1550	1550	0	5	-24	-3**	24
	SM	140km	-	8503N-5	-	-	-	1550	1550	2	5	-28	-8***	30
Gx AN Single- Fiber	SM	20km	-	8510N-1	-	-	-	1310	1550	-9.5	-3	-20	-3	10.5
	SM	20km	-	8511N-1	-	-	-	1550	1310	-9.5	-3	-20	-3	10.5
	SM	40km	-	8510N-2	-	-	-	1310	1550	-3	0	-20	-3	17
	SM	40km	-	8511N-2	-	-	-	1550	1310	-3	0	-20	-3	17

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

Trademarks are owned by their respective companies. iConverter and NetOutlook are registered trademarks of Omnitron Systems Technology, Inc. Specifications subject to change without notice.

©2003-2007 Omnitron Systems Technology, Inc. All rights reserved

091-8500N-001A



^{*}A minimum of 3dB of attenuation is required for these models.
**A minimum of 8dB of attenuation is required for this model.

^{***}A minimum of 13dB of attenuation is required for this model.

When using single-fiber (SF) media converter models, the Tx wavelength on one end has to match the Rx wavelength on the other.

^{162.5/125}µm, 100/140µm multimode fiber up to 220m. 50/125µm multimode fiber up to 550m. Refer to the fiber cable manufacturer for multimode distance specifications