iConverter

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

The *iConverter* Gx managed media converters are members of the modular *iConverter* product family, and provide 1000BASE-T UTP to 1000BASE-X fiber conversion.

The *iConverter* Gx models are available in multimode, single-mode, and single-fiber options. The Gx supports ST, SC, MT-RJ, and LC connectors. The UTP port supports 1000BASE-T in either Half or Full-Duplex mode. The UTP auto-crossover feature eliminates the need for a crossover cable and facilitates connectivity to network equipment such as hubs, switches and workstations.

The *iConverter* Gx features user-selectable Link Propagate, Link Segment and Remote Fault Detection modes to facilitate quick fault detection, isolation and reporting.

iConverter Gx 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. 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* Gx is an IEEE 802.3ab compatible 1000BASE-T UTP to 1000BASE-X fiber converter
- Supports multimode, single-mode and single-fiber
- 1000Mbps UTP port with Half or Full-Duplex auto-negotiation
- UTP auto-crossover feature eliminates the need for a crossover cable
- 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
- Lifetime Warranty and free 24/7 Technical Support

SPECIFICATIONS

Model Type	Gx
Protocols	1000BASE-SX/LX,1000BASE-T
UTP Connectors	RJ-45
Fiber Connectors	SC, LC, MT-RJ, Single-Fiber SC
Controls	LS/LP, RFD, UTP FDX/HDX
LED Displays	Power, FO link, UTP link, FDX/HDX
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	1.4A @ 3.3VDC (typical)
Temperature	Standard: 0 to 50º C Wide: -40 to 60º C Storage: -40 to 80º C
Humidity	5 to 95% (non-condensing)
Altitude	-100m to 4000m
MTBF (hrs)	1,100,000

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 Gx. 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 Gx 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 module's physical switch settings using SNMP or Telnet to remotely configure switch-selectable parameters such as UTP Duplex Mode.

The Gx 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

Model Type	Fiber / Media Type	Distance	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)
			SC	MT-RJ	LC							
Gx Dual Fiber	MM/DF	220 / 550m [1]	**8502-0**	**8504-0**	**8506-0**	850	850	-10	-4	-17	-3	7
	SM	12km	**8503-1**	**8505-1**	**8507-1**	1310	1310	-9.5	-3	-19.5	-3	10
	SM	34km	**8503-2**	-	**8507-2**	1310	1310	-5	0	-23	-3*	18
	SM	80km	**8503-3**	-	**8507-3**	1550	1550	-5	0	-23	-3*	18
	SM	140km	**8503-5**	-	-	1550	1550	2	5	-28	-8	30
Gx Single-Fiber	SM	20km	**8510-1**	-	-	1310	1550	-9.5	-3	-20	-3	10.5
	SM	20km	**8511-1**	-	-	1550	1310	-9.5	-3	-20	-3	10.5
	SM	40km	**8510-2**	-	-	1310	1550	-3	0	-20	-3	17
	SM	40km	**8511-2**	-	-	1550	1310	-3	0	-20	-3	17

For wide temperature modules (-40 to 60ºC), add a "W" to the end of the model number. Consult factory for extended temperature (-40 to +75º C) models.
*A minimum of 3dB of attenuation is required for these models. When using single-fiber (SF) media converter models, the Tx wavelength on one end has to match the Rx wavelength on the other.
[1] 62.5/125µm, 100/140µm multimode fiber up to 220m. 50/125µm multimode fiber up to 550m. Refer to the fiber cable manufacturer for multimode distance specifications.

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