WEIDERN ACCESS

GSM1010



1000Base-T to 1000Base-SX/LX Converter

This device provides conversion from a copper (1000Base-T) interface to single-mode (1000Base-LX) or a multi-mode (1000Base-SX) link allowing its extension up to 80km. As most of the GBE switches or NICs come with low cost copper (RJ-45) ports, combining such with the GSM1010 provides the most flexible and cost effective way to extend their reach over fiber. The heart of the GSM1010 is a powerful conversion processor while link interfaces are implemented by industry standard components. This design provides a reliable and steady conversion, advanced control /diagnostic features and Management, while maintaining full compatibility with other vendors' standard devices. The device generates "FDX advertising" signals on its copper port to ensure that the interconnected device - even a non managed one - is set to Full Duplex - a critical mode in GBE. FibroLAN's unique Link Segmentation Test

(LST) allows easy link segmentation (selective per port) to facilitate network diagnostics and overcomes the fault propagation which is inherent to GBE F/O links. A Loop-Back function on each port simplifies troubleshooting of link problems. Each port provides separate Link and Activity indications for enhanced diagnostics. The GSM1010 is also available in SNMP managed versions as well as in MA[™] versions, facilitating its remote in-band management from a MetroStar system. The device is housed in a robust metal case suitable for desktop, rack-shelf or wall-mount installation. It features an internal, wide-range, quality power supply for trouble free installation and reliable operation. The TP port features Auto-Cross and Auto-Polarity correction for troublefree installation. DC powered versions (-48VDC) are available. The ETR (Extended Temperature Range) option allows deployment in non-office environments.

Key Features

- Network extension up to 80km
- Reliability internal PS (-48VDC PS optional)
- Versatile installation desktop, shelf or wall-mount
- LST and Loop-Back for enhanced diagnostics
- SNMP and MA[™] managed versions
- Auto-Cross and Auto Polarity Correction

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General Specifications

Standard Compliance

IEEE802.3 2000edition, 1000Base-T, 1000Base-SX, 1000Base-LX,

IEEE802.3z, IEEE802.3ab

Management

SNMP versions 1&2, Telnet, RS232 (GSM1010M) Remote via *MetroStar* system (GSM1010/MA)

F/O Port

Duplex SC connector, see specifications below LEDs Power ON, MA Active Per Port - Link, Activity, LST, Loop-Back

Conversion Method Digital with FDX Advertising, Link Segmentation Test and Loop-Back TP Port Shielded RJ-45, Auto-Cross, Auto-Polarity Correction DIP switches (front panel) per port

LST ON/OFF Loop-Back ON/OFF

Environmental and Physical

Power-Supply

Internal, 100 ÷ 240 VAC, 50 ÷ 60Hz; DC PS - optional **Operating Temperature** Operating: 0° ÷ +45°C Storage: -20° ÷ +80°C

Safety Designed to meet UL 1950:1995, EN 60950 Dimensions 120x170x40mm Power Consumption 5 Watts maximum Humidity 10% ÷ 90% non-condensing EMC FCC part 15, Subpart B, Class A; ICES 003:1997, Class A; EMC Directive 89/336/EEC Weight 400 gram

Ordering Information and F/O port Specifications

Part #	Model	F/O Port					
		Fiber	Minimal Output Power	Typical Receive Sensitivity	Wavelength	Suggested Distance km	
B166	GSM1010	S/M	-13dbm	-20dbm	1310nm	0-10	
B167	GSM1011	S/M	-5dbm	-20dbm	1310nm	5-20	
B168	GSM1012	S/M	-8dbm	-23dbm	1550nm/DFB	10-40	
B169	GSM1013	S/M	0dbm	-24dbm	1550nm/DFB	25-80	
B186	GSM1014	M/M	-9.5dbm	-17dbm	850nm	220/500	

Options

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	B097	PS48	DC (-36 - 72VDC) option (instead of AC PS) for all GSM models		
	B098	ETR	Extended Temperature Range (-10°C + +70°C) option for all GSM models		
	B012	CTF-RM	19" rack shelf for installation of up to 3 GSM devices		
	B161	SCH-WM	Wall Mount kit for all GSM models		
Call Fibral AN for CSM1010M and CSM1010/MA models					

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Specifications subject to change without prior notice

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