

Two Port GbE Module Adapts Local 10 / 100 / 1000 BaseT circuits to the Wide Area Network via the MD8000 SW-CNT

FUNCTIONS

- External interface to 10 / 100 BaseT user circuits
- Optical Interface
- Transparent with Robust FEC
- Auto Protection Switchover < 50ms

FEATURES

- 2 Fully Independent Ethernet Circuits
- Automatic Rate Negotiation

APPLICATIONS

- LAN Extension
- WAN Access Circuit
- Network Management and Telemetry
- File Transfer

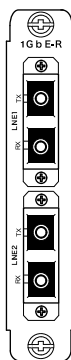
MD8000-2GbE

2 Port 10 / 100 / 1000 BaseT Ethernet Line Module

The GbE-2ch module accepts one or two 10/100/1000 BaseT signals, provides rate policing and VLAN tagging and transfers them to the MD8000 SW-CNT modules. Additionally, the 2GbE module accepts Ethernet packets transferred from the SW-CNT and provides one or two unique 10/100/1000 BaseT output signals.

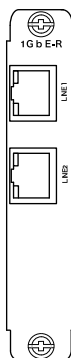
Two completely independent bi-directional GbE channels ensure that data on the individual ports is kept separate, permitting operation at full wire speed rates with total isolation. Both ports support Auto-Negotiation.

The GbE-2ch board has two modes of operation; transparent or port tagging mode. Both modes handle packets up to Jumbo frames (up to 9022 bytes in length including headers and FCS). Port tagging is utilized for point to point connections with path fail-over protection. Transparent mode is used for multiple point WAN connections. In addition the GbE-2ch board provides input filtering and rate policing to guarantee that data cannot impact video traffic. Either optical or electrical rear boards can be used for the GbE-2ch line module.



Name	Type	Description
LINE1 TX	SC	1Gbps Ethernet Output 1
LINE1 RX	SC	1Gbps Ethernet Input 1
LINE2 TX	SC	1Gbps Ethernet Output 2
LINE2 RX	SC	1Gbps Ethernet Input 2

Optical Rear Board Connectors



Name	Type	Description
LINE1	RJ-45	1Gbps Ethernet In/Out 2
LINE2	RJ-45	1Gbps Ethernet In/Out 2

Electrical Rear Board Connectors

MD8000-2GbE

SPECIFICATIONS

Parameter		10GBASE-LX (10 km)	10GBASE-LH (40 km)	10GBASE-LZ (80 km)	
Physical Characteristics	Transport Media	Single mode Fiber			
	No. of fibers used	2 (1 for In and 1 for Out)			
	Connector Type	SC			
Optical Characteristics	Data Rate	1.250 Gbps			
	Wave Length	1310 nm		1550 nm	
	Input Level	Max	-3.0 dBm	-3.0 dBm	-3.0 dBm
		Min	-19.9 dBm	-20.0 dBm	-24.0 dBm
	Output Level	Max	-3.0 dBm	0.0 dBm	0.0 dBm
Min		-11.5 dBm	-4.0 dBm	+5.2 dBm	
Ethernet	Transmission Speed	1 Gbps			
	Access Method	CSMA/CD Full-Duplex			
	Frame Structure	IEEE802.3ab			
	Transmission Media	<1000BASE-T> UTP CAT5e or higher			
	Transmission Coding	1000 BaseT: 8B1Q4 10/100 Base			
	Max. Cable Length	100 m			

Specifications subject to change

ORDERING INFORMATION

ORDER NR ORDER CODE

2 Port 10/100/1000BT Line Module with Optical Rear Panel, w/o Optics	MD801029	1GEther-2Sch-F(no Opt) Opt interface
2 Port 10/100/1000BT Line Module with Electrical Rear Panel	MD801029	1GEther-2Sch-F(no Opt) Ele interface

OPTICAL PLUG-INS [SFP]

1 Gb SFP Optical Module, 1310 nm, 10 km, ROHS, Digital Diagnostics	SFP-1310-1G10
1 Gb SFP Optical Module, 1310 nm, 40 km, ROHS, Digital Diagnostics	SFP-1310-1G40
1 Gb SFP Optical Module, 1550 nm, 80 km, ROHS, Digital Diagnostics	SFP-1550-1G80
1 Gb SFP Optical Module, 1550 nm, 120 km, ROHS, Digital Diagnostics	SFP-1550-1G120

Media Links, INC
1294 Blue Hills Avenue,
Bloomfield, CT 06002,
USA
Phone +1 860-206-9163
Fax +1 860-206-9165
info@medialinks.com

Media Links Systems GmbH
Röntgenstrasse 3
D-64291 Darmstadt
Germany
Phone +49 6151-9385-0
Fax +49 6151-9385-35
info@medialinks.eu

MEDIA LINKS®

www.medialinks.com