

MD8000 Series - 2 Port 100/1000BT Trunk Module

2GbE – 2 Port 100/1000BT Trunk Module

The Dual-Port Gigabit Ethernet Trunk module provides a flexible network interface module for all MD8000 series applications.

KEY FUNCTIONS:

- Network Interface for MD8000
- User Configurable Maximum Bandwidth Limits
- Compliant with 802.3 Ethernet Standards

KEY FEATURES:

- Operates at 100 or 1000Mbps
- Wide Range of SFP Optical Modules
- Separate status/error information for ports 1 and 2
- Optical and Electrical (CAT-5) Interfaces, SC connectors on optical card
- Optical Range of up to 120km, multi-mode or single-mode fiber
- Front panel LED status and error indicators, including link status, LOS, power, temperature, TX/RX
- Jumbo Frame support, up to 9022 bytes in length, including headers and FCS
- IEEE 802.3 compatible, CSMA/CD Full Duplex access method

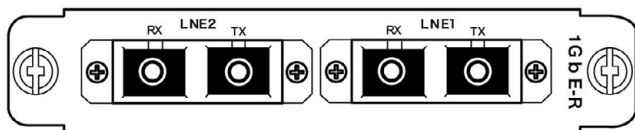
The Dual-Port Gigabit Ethernet Trunk module provides a flexible network interface module for all MD8000 series applications. This single card provides interfaces to two separate transport networks, each of which can operate at any of the popular Ethernet interface speeds of 100 Mbit/sec or at 1000 Mbit/sec. This flexibility gives network designers the ability to create a wide range of redundant or non-redundant network architectures that comply with all applicable Ethernet signal standards.

Both electrical and optical interfaces are supported. The MD8000-2GbE-E (electrical) version includes two standard RJ-45 electrical connections that can be used for full-duplex 100 or 1000BaseT applications. The MD8000-2GbE-O (optical) units are designed to provide two independent optical Gigabit Ethernet connections. These units require one Small Form-factor Pluggable (SFP) device for each of the two interfaces, which can be independently selected for the desired optical wavelength and distance from one of four choices.

The MD8000-2GbE module can be installed in any available slot in the 4-RU MD8000 chassis, the 7-RU MD8000EX chassis, or the 2-RU MD8000SX chassis. In combination with MD8000 signal interface cards and the flexible switch/controller units, many different types of media signals can be transported over common Ethernet network infrastructures. Full system configuration and alarm reporting is available through the extensive SNMP MIB and the Media Links Network Management System (NMS).

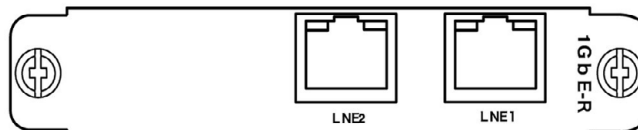


MD8000 - 2GbE – 2 Port 100/1000BT Trunk Module



NAME	TYPE	DESCRIPTION
LINE1 TX	SC	10 Gbps Ethernet Output 1
LINE1 RX	SC	10 Gbps Ethernet Input 1
LINE2 TX		10 Gbps Ethernet Output 2
LINE2 RX		10 Gbps Ethernet Input 2

Optical Rear Board Connectors



NAME	TYPE	DESCRIPTION
LINE 1	RJ-45	1Gbps Ethernet In/Out 1
LINE 2	RJ-45	1Gbps Ethernet In/Out 2

Electrical Rear Board Connectors

APPLICATIONS FOR THE MD8000 - Two Port 100/1000BT Ethernet Trunk Module

- Compressed Video Streams via 100BaseT links
- Uncompressed SD and Compressed HD Video over Gigabit Links
- Direct Connections to Industry-Standard Routers and Switches
- Metropolitan Distribution Network connectivity for cost-effective transport

FUNCTIONAL SPECIFICATIONS:

Parameter		-LX (10 km)	-LH (40km)	-LZ (80 km)	
Physical Characteristics	Transport Media	Single mode			
	No. of fibers used	2 (1 for In and 1 for Out)			
	Connector Type	SC			
Optical Characteristics	Data Rate	1.250 Gbps			
	GbE Transmission over fiber	IEEE802.3z			
	Wavelength	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			
	GbE Transmission over twisted-pair	IEEE802.3ab			
	Transmission Media	<1000BASE-T>, UTP CAT5e or higher			
	Max Cable Length	100 m			
Packet Encapsulation	Network Protocol	IPv4			
	Packet Size	1500 Bytes (Including the IP Header)			

ORDERING INFORMATION

MODEL	ORDER NUMBER	ORDER CODE
2 Port GbE Trunk Module with Optical Rear Panel w/o Optics	MD802504	1GEther-2Trunk-F(no Opt.) +JP opt. Interface
2 Port GbE Trunk Module with Electrical Rear Panel	MD802504	1GEther-2Trunk-F(no Opt.) +JP ele Interface

OPTICAL PLUG-IN (SFP)

MODEL	ORDER CODE
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 (Headquarters)
Kawasaki Tech Center 18F
580-16 Horikawa-cho,
Saiwai-ku, Kawasaki-shi,
Kanagawa 212-0013 Japan
Phone: +81 44-589-3440
query@medialinks.co.jp

Media Links Americas
431-C Hayden Station Road
Windsor, CT 06095
USA
Phone: +1 860-206-9163
Fax: +1 860-206-9165
info@medialinks.com

Media Links Australia
2-12 Rokeby Street,
Collingwood, VIC 3066,
Australia
Phone: +61 3-9017-0175
Fax: +61 3-8456-6339
info@medialinksaustralia.com.au

Media Links EMEA
Suite 18242
PO Box 6945
London W1A 6US
United Kingdom
Phone: +44 (0)20 7096 9569
emea_info@medialinks.com

MEDIA LINKS®
Media Defined Networking®

www.medialinks.com