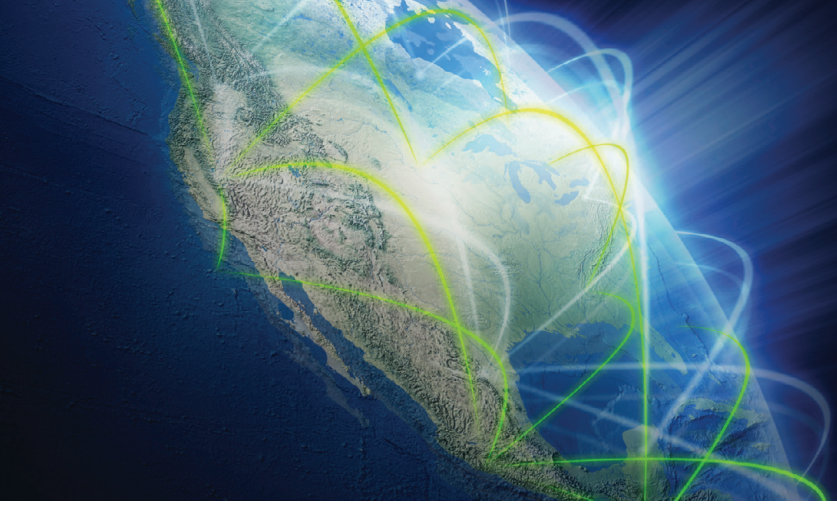


MEDIA LINKS®
Media Defined Networking®

DATASHEET

MD8000 Series - 2 Port OC-12/STM-4 Trunk Module

2 Port OC-12/STM-4 Trunk Module

The two Port OC-12/STM-4 Trunk Module delivers SONET/SDH WAN connectivity to any MD8000 chassis.

KEY FUNCTIONS:

- GFP Support for IP Network Integration
- STS / VC concatenation for efficient network utilization

KEY FEATURES:

- Pluggable SFP Optics with CWDM / DWM supported
- Dual Port OC-12 / STM-4 SONET / SDH Card

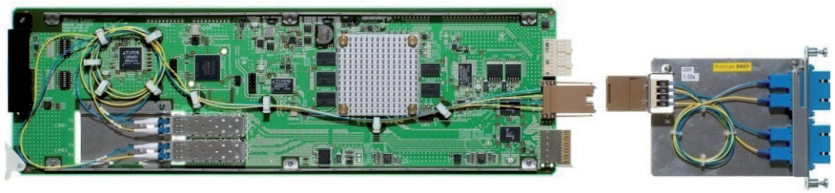
APPLICATIONS:

- Carrier Class Media Networks
- High Performance Studio Interconnects
- Flawless Contribution Video Transport
- Reliable Content Delivery Systems
- Integrated Live, Recorded and File-Based Communications

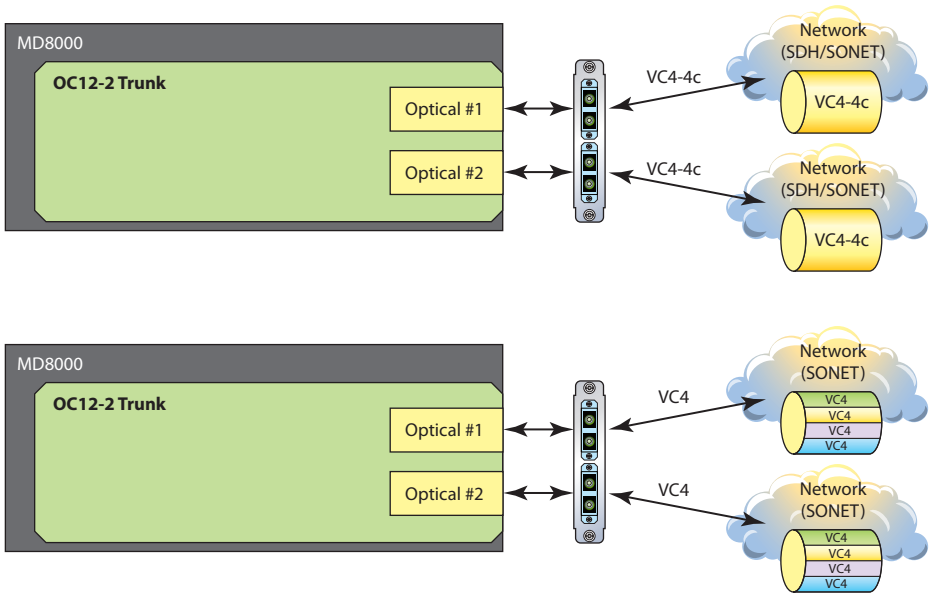
The two Port OC-12/STM-4 Trunk Module delivers SONET/SDH WAN connectivity to any MD8000 chassis, including the MD8000, MD8000EX, and MD8000SX. Ethernet packets are used to efficiently transfer data to/from this trunk module to the device's redundant switch controllers over a non-blocking Layer 2 Switch Fabric. This trunk module has the capability of handling Jumbo frames (up to 9022 bytes in length including headers and FCS).

Two ports operating at 622Mbps (581.068 Mbps effective) are built into the OC-12/STM-4 Trunk Module. For improved network utilization and multi-service termination onto a single trunk port, the OC-12/STM-4 Trunk Module supports several different SONET/SDH concatenation modes, including full, four-division, port 1 full and port 2 twelve division, and port 1 twelve division and port 2 full.

The 2 Port OC-12/STM-4 Trunk Module accepts small form factor pluggable [SFP] optics to support optical budgets of 10km, 40km, 80km and 120km. To assist in SONET/SDH installations and troubleshooting, a complete set of status/diagnostic LEDs and counters are featured. Support for ITU-T G.7041, Generic Framing Procedure (GFP), permits easy IP network integration.



MD8000 - 2 Port OC-12/STM-4 Trunk Module


MD8000
OC12-2 Trunk
Optical #1
Optical #2
VC4-4c
VC4-4c
Network
(SDH/SONET)
VC4-4c
Network
(SDH/SONET)
VC4-4c
MD8000
OC12-2 Trunk
Optical #1
Optical #2
VC4
VC4
Network
(SONET)
VC4
VC4
VC4
VC4
Network
(SONET)
VC4
VC4
VC4
VC4

FUNCTIONAL SPECIFICATIONS:

Parameter			IR-1 / S-4.1 (≤15km)	LR-1 / L-4.1(≤40km)	LR-2 / L-4.2 (≤80km)
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		622.080 Mbps (581.068 Mbps effective)		
	Wavelength		1272 nm ~ 1356 nm	1280 nm ~ 1335 nn	1500 nm ~ 1580 nn
	Input Level	Max	– 8.0 dBm	– 8.0 dBm	– 9.0 dBm
		Min	– 28.0 dBm	– 28.0 dBm	– 28.0 dBm
	Output Level	Max	– 8.0 dBm	– 3.0 dBm	– 2.0 dBm
		Min	– 15.0 dBm	+ 2.0 dBm	+ 3.0 dBm
Power Consumption			24VA or less		
Standards	OC-12		Telcordia GR-253-CORE / ITU-T G.707		
	STM-4 (international)		ITU-T G.707		
	GFP		ITU-T G.7041		

ORDERING INFORMATION

MODEL	ORDER NUMBER	ORDER CODE
2 Port OC-12 / STM-4 Trunk Module, w/o Optics	MD802914	OC12-2Trunk+STS1 (no opt)

OPTICAL PLUG-IN (SFP)

MODEL	ORDER CODE
OC-12 / STM-4 SFP Optical Module, 1310 nm, 15 km, ROHS, Digital Diagnostics	SFP-1310-622-15
OC-12 / STM-4 SFP Optical Module, 1310 nm, 40 km, ROHS, Digital Diagnostics	SFP-1310-622-40
OC-12 / STM-4 SFP Optical Module, 1550 nm, 80 km, ROHS, Digital Diagnostics	SFP-1550-622-80
OC-12 / STM-4 SFP Optical Module, 1550 nm, 120 km, ROHS, Digital Diagnostics	SFP-1550-622-120

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
Thremhall Park
Start Hill, Bishop's Stortford,
Herts CM22 7WE
United Kingdom
Phone: +44(0)1279 874371
emea_info@medialinks.com

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Media Defined Networking®

www.medialinks.com