

MD8000 Series - 2 Port OC-48/STM-16 Trunk Module

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The two Port OC-48/STM-16 Trunk Module is ideal for connecting any of Media Links' MD8000 devices to SONET/SDH networks at rates of 622Mbps (581.068 Mbps effective).

KEY FUNCTIONS:

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

KEY FEATURES:

- Pluggable SFP Optics with CWDM / DWDM supported
- Dual Port OC-48 / STM-16 SONET / SDH Card

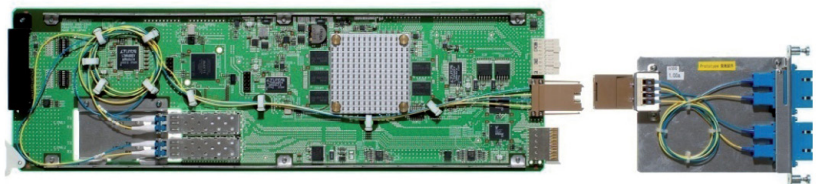
APPLICATIONS:

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

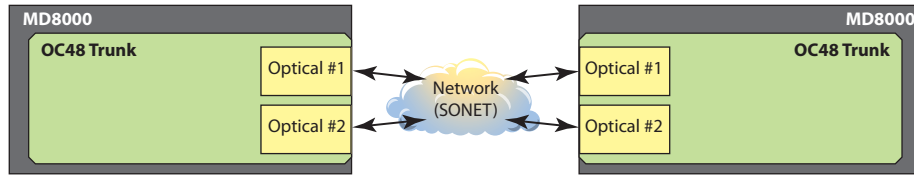
The two Port OC-48/STM-16 Trunk Module is ideal for connecting any of Media Links' MD8000 devices to SONET/SDH networks at rates of 622Mbps (581.068 Mbps effective). Using a non-blocking Layer 2 Switch Fabric, Ethernet frames from an OC-48/STM-16 Trunk Module are sent to the dual Switch Controllers (SW-CNT modules) across the chassis backplane. For route diversity, this trunk module is equipped with dual SONET/SDH interfaces.

For efficient multiplexing and easy integration with carrier IP networks, the trunk card supports the ITU G.7041 Generic Framing Procedure (GFP). For optimal core network utilization and multi-service termination on a single trunk port, several STS/VC concatenation are supported, including STS12c x 2 Ports (SONET), VC4-4c x 2 Ports (SDH), 4 x STS3c x 2 Ports (SONET), and 4 x VC4 x 2 ports (SDH). Additional supported modes (STS Model) include a combined mode of one port of STS12c (SONET) with the second port supporting logical paths of 12 x STS1 x 1 (SONET).

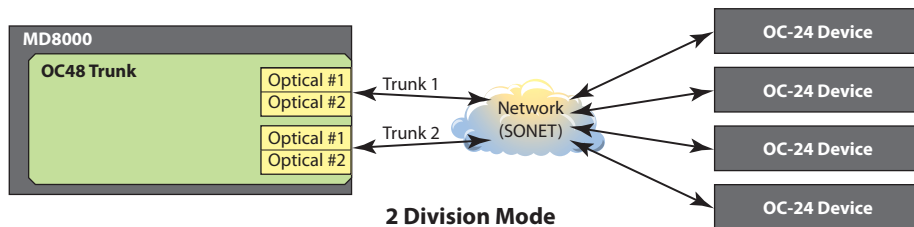
The two Port OC-3/STM-1 Trunk Module accepts small form factor pluggable (SFP) optics to support optical budgets of 10km, 40km, 80km and 120km. Newer SONET/SDH compatible wavelength division multiplexing technologies such as CWDM/DWDM are also fully supported.



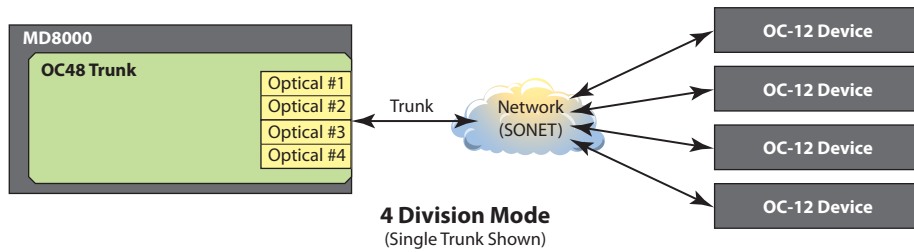
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Full Concatenation



2 Division Mode



4 Division Mode
(Single Trunk Shown)

FUNCTIONAL SPECIFICATIONS:

Parameter		IR-1 / S-16.1 (≤15km)	LR-1 / L-16.1(≤40km)	LR-2 / L-16.2 (≤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	2.48832 Gbps			
	Wavelength	1272 nm ~ 1356 nm	1280 nm ~ 1335 nm	1500 nm ~ 1580 nm	
	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		25VA or less			
Standards	OC-48	Telcordia GR-253-CORE			
	STM-16 (international)	ITU-T G.707			
	GFP	ITU-T G.7041			

ORDERING INFORMATION

MODEL	ORDER NUMBER	ORDER CODE
2 Port OC-48 / STM-16 Trunk Module w/o Optics	MD802324	OC48-2Trunk-F+LS(no opt)

OPTICAL PLUG-IN (SFP)

MODEL	ORDER CODE
OC-48 / STM-16 SFP Optical Module, 1310 nm, 15 km, ROHS, Digital Diagnostics	SFP-1310-248-15
OC-48 / STM-16 SFP Optical Module, 1310 nm, 40 km, ROHS, Digital Diagnostics	SFP-1310-248-40
OC-48 / STM-16 SFP Optical Module, 1550 nm, 80 km, ROHS, Digital Diagnostics	SFP-1550-248-80

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