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

2 Port OC-48/STM-16 Trunk Module

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 / DWM supported
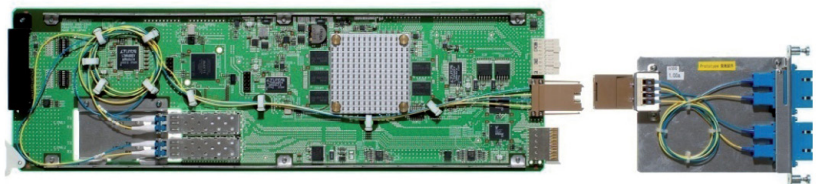- Dual Port OC-48 / STM-16 SONET / SDH Card

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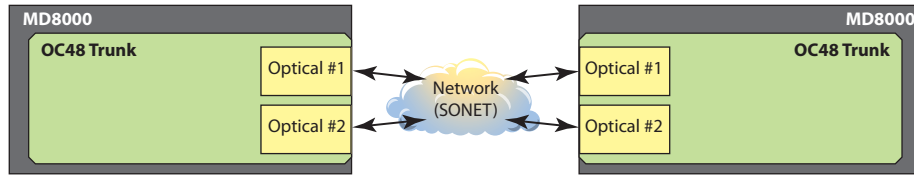- Integrated Live, Recorded and File-Based Communications

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 (SONET0, 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).
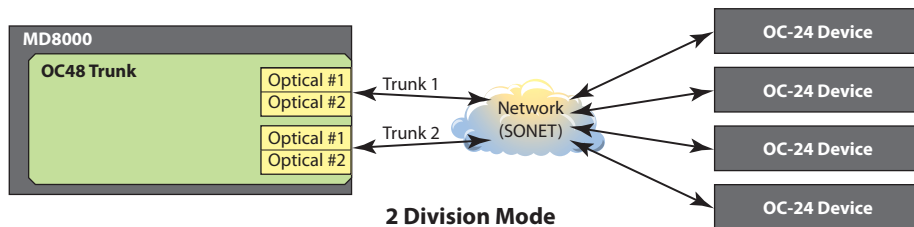
The two Port OC-3/STM-1 Trunk Module accepts small form factor pluggable (SFP) optics to support optical budgets of 10km, 40km, 80km and 120km. Newer SONET/SDH compatible wavelength division multiplexing technologies such as CWDM/DWDM are also fully supported.
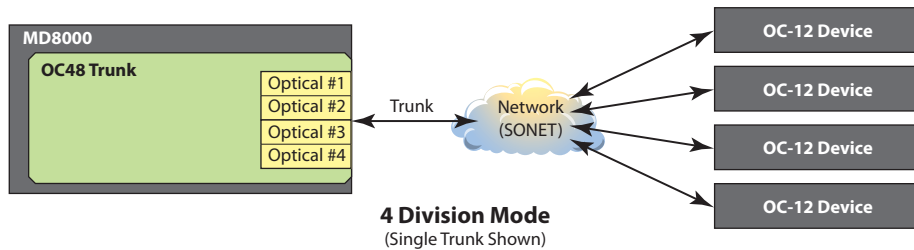

MD8000 - 2 Port OC-48/STM-16 Trunk Module

MD8000

OC48 Trunk

Optical #1

Optical #2

Network (SONET)

MD8000

OC48 Trunk

Optical #1

Optical #2

Full Concatenation

MD8000

OC48 Trunk

Optical #1
Optical #2

Optical #1
Optical #2

Trunk 1

Trunk 2

Network (SONET)

OC-24 Device

OC-24 Device

OC-24 Device

OC-24 Device

2 Division Mode

MD8000

OC48 Trunk

Optical #1
Optical #2
Optical #3
Optical #4

Trunk

Network (SONET)

OC-12 Device

OC-12 Device

OC-12 Device

OC-12 Device

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 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			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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