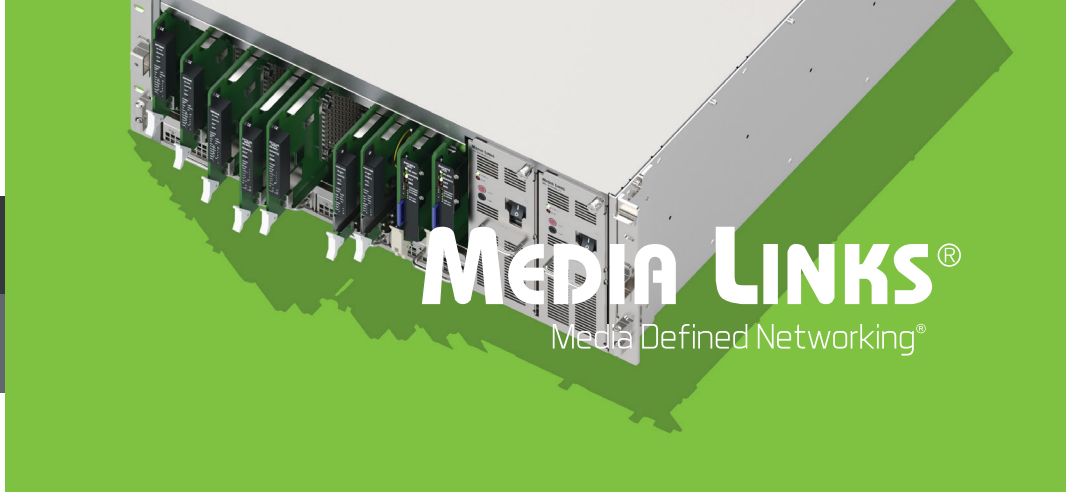
Media Links® inside

Made for the MD8000 Platform™

Core Gateways

MD8000 Trunk Cards

DATASHEET **Version 3.0**



Description

The 10GigE LAN Trunk Module is a single port 10 Gigabit Ethernet card that connects to the transport network via an optical interface

Applications

- Carrier Class Media Networks
- High Performance Studio Interconnects
- Flawless Contribution Video Transport
- Reliable Content Delivery Systems
- Integrated Live, Recorded and File-Based Communications
- Metropolitan Distribution Networks connectivity for cost-effective transport

Features & Benefits

- XFP Optics, single or multi-mode fiber support
- LAN Phy 10.3125 Gbit/s with 64B/66B encoding
- Front panel LED status and error indicators, including TX/RX, link status and errors, power, temperature, maintenance mode
- Efficient stream processing with Jumbo Ethernet frame support
- Full QoS support, including seven priority queues, FEC, hitless switching
- Optical rear connector, SC connectors
- Modular Rear Panel I/O
- On-board diagnostics
- Available 300 meter, 10km, 40km and 80km optical reach

Technical overview

- Made for the MD8000 networking platform
- External optical interface to transport network
- Internal electrical interface to dual MD8000 SW-CNT modules

Compatible with

MD8000SX, MD8000, MD8000 EX Platforms

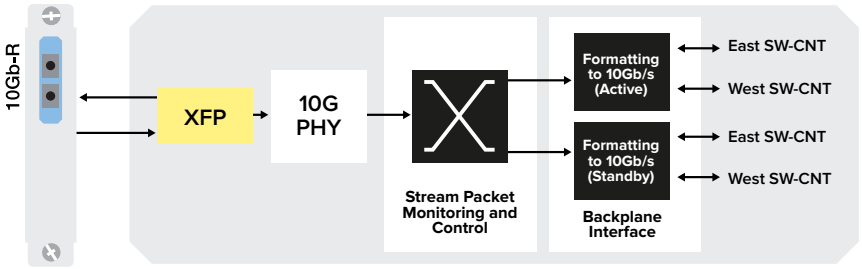
DATASHEET

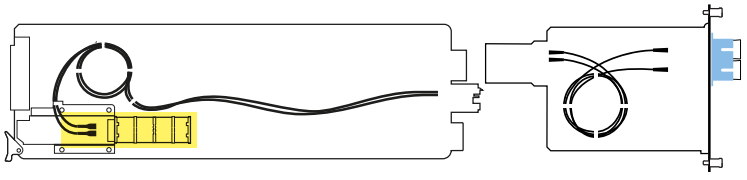
MD8000 Series - 10G LAN Trunk Module

The 10GigE LAN Trunk Module is a single port 10 Gigabit Ethernet card that connects to the transport network via an optical interface. The optical connection is made using a small form factor pluggable transceiver (XFP) that is available in the following reaches: 300 meters, 10km, 40km and 80km. For DWDM networks, an XFP is also available with a reach up to 80km.

The 10GigE LAN Trunk Module is designed to handle jumbo Ethernet frames up to 9022 byes in length (including headers and FCS). Transmission of data to the MD8000 dual switch controllers is accomplished using a 10Gbps internal electrical interface to the chassis backplane.

Using a mid-plane chassis architecture, the 10GigE LAN Trunk Module uses a separate optical rear board to connect to the transport network.

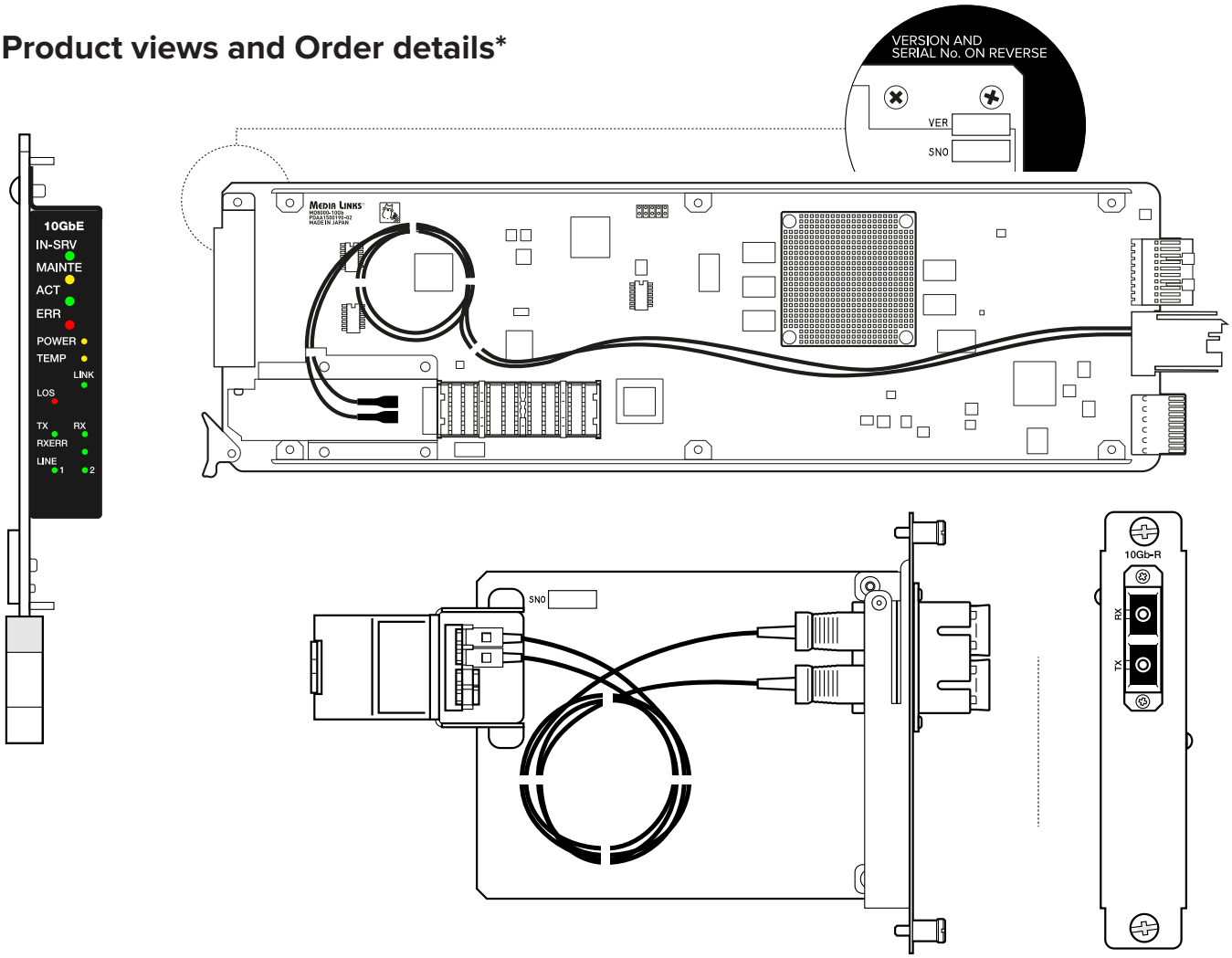




10G LAN Trunk: Front

10G LAN Trunk: Rear

Product views and Order details*



ORDER YOUR PRODUCT

MD8000 Series - 10G LAN Trunk Module

10GigE LAN Trunk Module
Order Code:
MD802704-G0NP (Front) and
MD807013-G000 (Rear)

Optical Plug-in (XFP)

10GbE XFP Optical Module, 850 nm, 300 m, ROHS, Digital Diagnostics
Order Code: XFP-850-300

10GbE, XFP Optical Module, 1310 nm, 10 km, ROHS, Digital Diagnostics
Order Code: XFP-1310-10

10GbE, XFP Optical Module, 1550 nm, 40 km, ROHS, Digital Diagnostics
Order Code: XFP-1550-40

10GbE, XFP Optical Module, 1550 nm, 80 km, ROHS, Digital Diagnostics
Order Code: XFP-1550-80

10GbE, XFP Optical Module, DWDM, 80 km, XX for ITU Channel Number, ROHS, Digi. Diagn.
Order Code: XFP-DWDM-80-XX

*Cards shown not to scale. Media Links reserves the right to to alter specifications without notice.

Service Specifications & Supported Parameters†

MD8000 Series - 10G LAN Trunk Module: Functional Specification

Item			0Gb-SR (300 m)	10Gb-LR (10km)	10Gb-ER (40 km)	10Gb-ZR (80 km)
Physical Characteristics	Transport Media		Multi mode Fiber	Single mode		
	No. of core wires used		2 (1 for In and 1 for Out)			
	Connector Type		SC			
Optical Characteristics	Data Rate		10.3125 Gbps			
	Wavelength		840 – 860 nm	1260 – 1355 nm	1530 – 1565 nm	
	Input Level	Max	– 1.0 dBm	+ 0.5 dBm	– 1.0 dBm	– 7.0 dBm
		Min	– 9.9 dBm	– 14.4 dBm	– 15.8 dBm	– 24.0 dBm
	Output Level	Max	- 1.0 dBm	+ 0.5 dBm	+ 4.0 dBm	+ 4.0 dBm
		Min	– 7.3 dBm	– 8.2 dBm	– 4.7 dBm	0.0 dBm

General specifications

External dimensions Front board: 17 mm (W) * 113 mm (H) * 367 mm (D)
Rear board: 41 mm (W) * 96 mm (H) * 126 mm (D)

Board Structure Front and Rear

Chassis slots needed Front board occupies a 1-slot width
Rear board occupies a 1-slot width

Weight 1 kg or less

Power consumption 33.0 W or less

Compliance CE/CSA, NEBS Level 3

Operating temperature 0 ~ 40°C (Ambient) (Under the no-condensing humidity condition)

Redundancy modes All MD8000 modes of operation are supported (Single/Class B/Class C/Class J)

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