



**Description**

The MD8000-10GbE-1Sch LAN Line Module is a single port high capacity service card for applications where 10 Gigabit Ethernet density is required for user side data traffic

**Applications**

- High Speed LAN Extension
- Flawless Contribution Video Transport
- Reliable Content Delivery Systems
- High Performance Studio Interconnects
- Integrated Live, Recorded and File-based Communications

**Features & Benefits**

- VLAN Overwrite for ingress and egress streams
- Single Mode XFP Optics
- Supports Jumbo Frames

**Technical overview**

- Made for the MD8000 and MD8000-100G networking platforms
- External interface to user circuits
- Transparent or Q in Q tunneling
- Auto Protection switchover <50ms

**Compatible with**

MD8000SX, MD8000, MD8000 EX and MD8000-100G Platforms

**DATASHEET**

**10 GigE LAN Line Module**

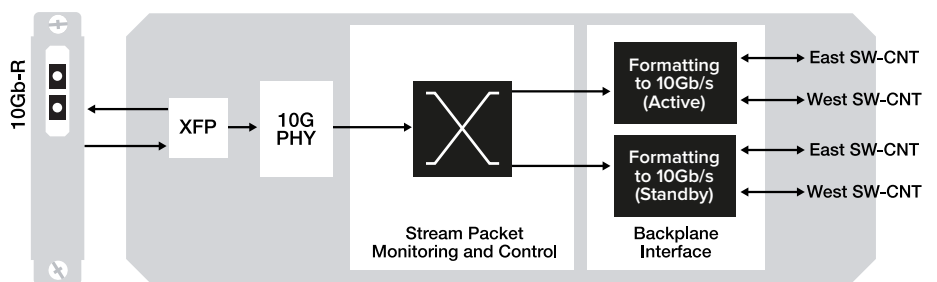
The MD8000-10GbE-1Sch LAN Line Module is a single port high capacity service card for applications where 10 Gigabit Ethernet density is required for user side data traffic. The 10GbE Line card provides efficiency for single port ingest into the MD8000 platform for flexible distribution across multiple network links.

VLAN tagging with protection switching and VLAN pass-through with static provisioning are supported for maximum flexibility in network planning. Auto-protection switching is integrated, for data traffic to automatically switch between the primary and back-up path.

VLAN Overwrite allows the VLAN tags to be changed on ingress and egress of the 10GbE line module.

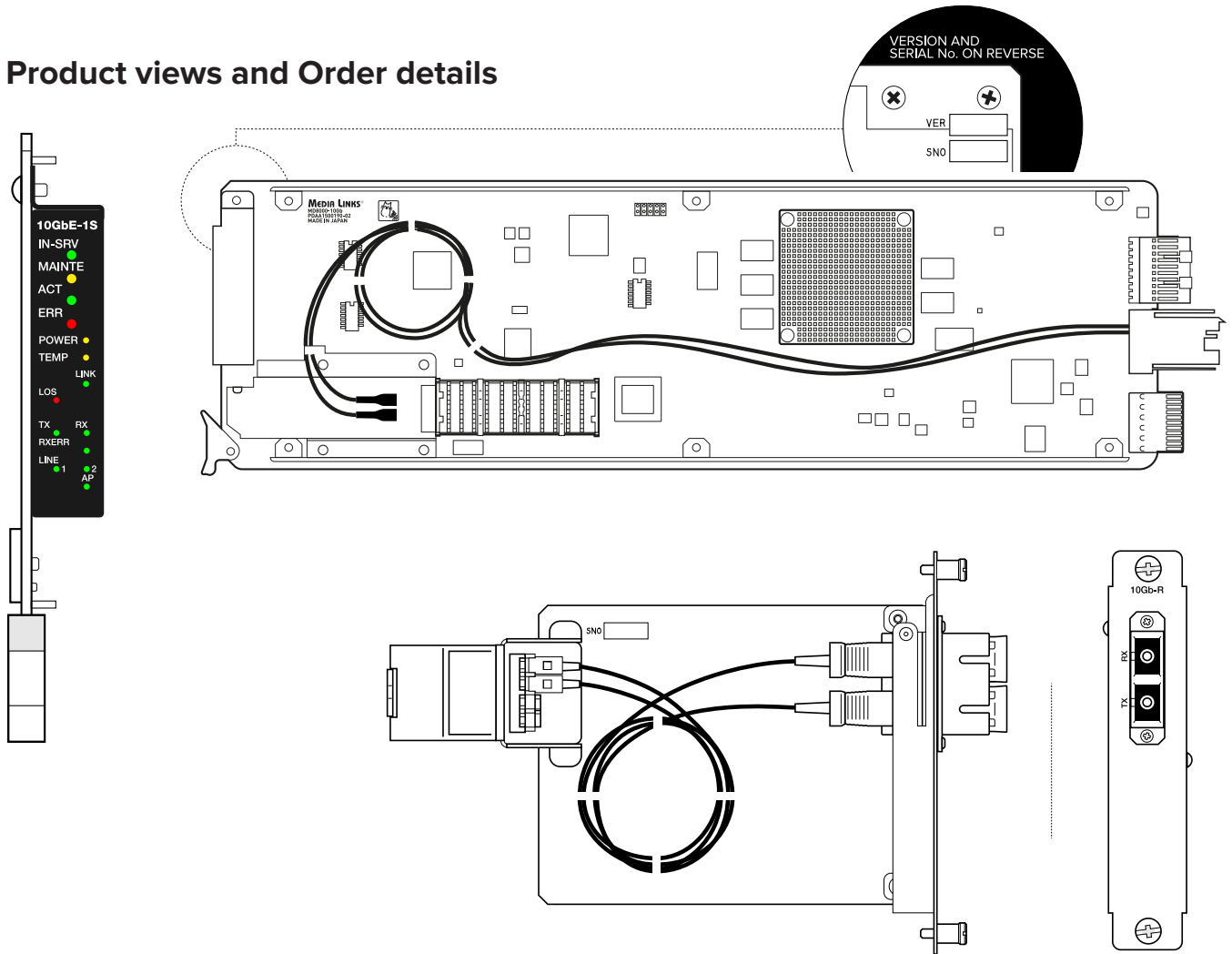
The 10GigE LAN Line Module accepts small form factor pluggable optics to support optical transport of 300 meters, 10km, 40km and 80km and DWDM networks up to 80km.

**MD8000 - 10G LAN Line Module Block Diagram**



10 GigE LAN Front Line Module with Rear Panels w/o Optics

# Product views and Order details



## ORDER YOUR PRODUCT

### MD8000-10GbE-1Sch

10 Gige LAN Front Line Module with Rear Panels w/o Optics  
Order Code: MD801053-G000

### SFP Cage Rear Panel Plug-ins†

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

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

10GbE, XFP Optical Module, 1550nm, 40 km, ROHS, Digital Diagnostics  
Order Code: XFP-1550-80

10GbE, XFP Optical Module, DWDM, 80 km, XX for ITU Channel Number, ROHS, Digital Diagnostics  
Order Code: XFP-DWDM-80-XX

\*Cards shown not to scale.

† Media Links reserves the right to alter specifications without notice.

‡ Note: All SFP modules are compliant to MSA (INF-8074i and SFF-8472) standards.

# Service Specifications & Supported Parameters<sup>†</sup>

## 10 GigE LAN Line Module: Physical and Optical Characteristics

Item		-SR (300 m)	-LR (10km)	-ER (40 km)	ZR (80 km)	
Physical Characteristics	Transport Media	Multi mode Fiber	Single mode Fiber			
	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)

<sup>†</sup> Media Links reserves the right to to alter specifications without notice.

**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 EMEA**  
Suite 18242, PO Box 6945,  
London W1A6US  
UK  
Phone: +44 207 096 9569  
emea\_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

[www.medialinks.com](http://www.medialinks.com)

**MEDIA LINKS**<sup>®</sup>  
Media Defined Networking<sup>™</sup>