MD8000 Series – 10 GigE LAN Line Module

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.

KEY FUNCTIONS:
- External interface to user circuits
- Transparent or Q in Q tunneling
- Auto Protection switchover <50ms

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

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

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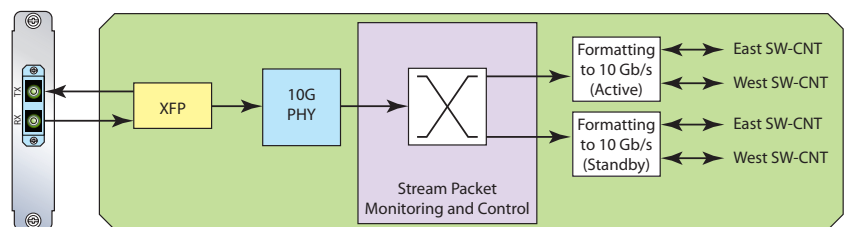
VLAN tagging with protection switching and VLAN pass-through with static provisioning are supported for maximum flexibility in network planning. Auto-protection switching is integrated, for data traffic to automatically switch between the primary and back-up path.

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 - 10 GigE LAN Line Module

MD8000 - 10G LAN Line Module Block Diagram

FUNCTIONAL SPECIFICATIONS:

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 Mbps			
	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
	Input Level — 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
	Output Level — Min	– 7.3 dBm	– 8.2 dBm	– 4.7 dBm	0.0 dBm

ORDERING INFORMATION

MODEL	ORDER NUMBER	ORDER CODE
10 GigE LAN Line Module with Rear Panels w/o Optics	MD801053	MD8000-10GbE-1Sch

OPTICAL PLUG-IN (SFP)

MODEL	ORDER CODE
10GbE XFP Optical Module, 850nm, 300m, ROHS, Digital Diagnostics	XFP-850-300
10GbE, OC-192, STM-64 XFP Optical Module, 1310nm, 10 km, ROHS, Digital Diagnostics	XFP-1310-10
10GbE, OC-192, STM-64 XFP Optical Module, 1550nm, 40 km, ROHS, Digital Diagnostics	XFP-1550-80
10GbE, OC-192, STM-64 XFP Optical Module, DWDM, 80 km XX for ITU Channel Number, ROHS, Digital Diagnostics	XFP-DWDM-80-XX