

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.

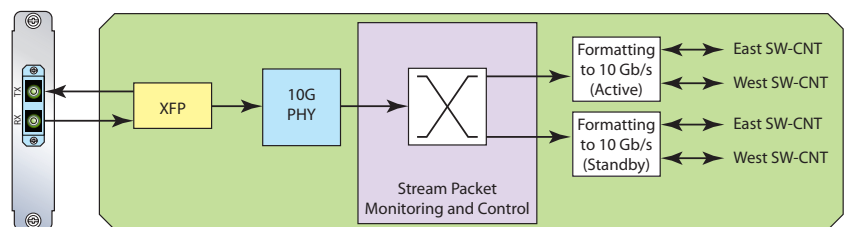
VLAN tagging with protection switching and VLAN pass-through with static provisioning are supported for maximum flexibility in network planning. Auto-protection switching is integrated, for data traffic to automatically switch between the primary and back-up path.

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 |
| | | 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 |

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 |

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