Overview

The AM1680 is a CWDM Optical Linear Add & Drop Multiplexer that is designed to do linear add/drop functions up to 16 special optical wavelengths at any location in the link and insert another wavelength back into this link. This is a low cost fiber expansion solution, without installing new fibers, the user can maximize fiber capacity up to 16 times and can transfer up to 10 GB of digital data per channel to each new location. The Master unit AM1680 is normally located at the central office and will connect to multiple slave units from various remote location via only one pair of single mode fiber optic cable.

With the optical I/O state-of-the-art versatile designed, the AM1680 will allow the users to select compatible SFP modules to user’s communication devices. For example the user can select 1.25 Gbps Multimode SFP modules for channels 1 and 2 to connect Cisco Gigabit Switches, 2.48 Gbps Single Mode SFP module for channels 3 and 4 to connect to OC24 SONET Multiplexers, 4.8 Gbps Single mode SFP modules for channels 5 and 6 to connect High Speed Digital Video Broadcasting equipment and so on.

The AM1680 is ideal for high speed leased fiber, SAN, Telco feeder, SCADA, Enterprise and Corporate Networks. The AM580 multiplexes SONET OC-1, OC-3, and OC-12, OC-24, OC48, SDH STM-1 and STM-4, STM-16, 100M Ethernet, Gigabits Ethernet, DS3, E3, CEPT-1, FDDI, ESCON, Direct TV, HD Video, HDTV, HDMI and many other standard or proprietary digital optical signals.

Features

- Linear Add/Drop Full Duplex 16 SFP Channels
- Expand up to 15 locations
- Maximize fiber capacity up to 160 GB data
- LAN/WAN, SAN High Speed Signals
- Data speed from 100 Mbps up to 10 Gbps
- Up to 50 Km total distance with all nodes
- 100% Protocol Independent I/O
- Selectable SFP from 1.25 GB, 2.48 GB, 4.8 GB, and 10 GB per I/O Channels
- No Bandwidth Penalty
- 1 RU Rack Mountable
- NEMA Temperature

Applications

- Telco CO-CO Multiplexing
- Fiber Optic Feeder
- Enterprise and Corporate Networks
- Leased Fiber Networks
- Mixed Protocol Multiplexing
- Military Tactical Communications
- ITS Traffic Networks
- METRO Monitoring Operation
- Homeland Security
- Oils and Gas Monitoring System

Order Information

<table>
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<tr>
<th>Model</th>
<th>Descriptions</th>
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<tr>
<td>AM1680ST-16</td>
<td>16-Channels Optical Linear Add/Drop Master Unit, 1.25 ~ 10 GB SFP, SM ST, 50Km, 90~240 VAC</td>
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<tr>
<td>AM1680ST-2</td>
<td>2-Channels Optical Linear Add/Drop Slave Unit, 1.25 ~ 10 GB SFP, SM ST, 50Km, 90~240 VAC</td>
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*** Please Consult Factory for Additional Model Numbers ***
Specifications

System:
- Error Rate: 1 in $10^{12}$ or Better
- Indicators: PWR, TX1-16, RX1-16
- I/O Channels: Full Duplex
- Data Rate: 1.25 Gbps to 10 Gbps per Channel
- Protocol: 100% Transparency

Environment:
- Operating: -34° C to +74° C
- Storage: -40°C to + 95°C
- Humidity: 98% Non-Condensing

Physical:
- Dimensions: 19” x 10” x 1.75”
- Weight: 10 lbs

Optical Composite Interface:
- Transmitter: SM CWDM Lasers
- Receiver: SM CWDM & PIN-TIA
- Data Rate: 8 x 10 Gbps
- Distance: Up to 50 Km @ single mode
- Connector: ST or SFP

Optical I/O Interface:
- Transmitter: VESEL-850, 1310nm MM/SM Lasers
- Receiver: PIN-TIA
- Data Rate: 8 x 10 Gbps
- Distance: 20 Km @ single mode
- Connector: SFP

Power:
- Rack mountable: 90~240 VAC

Application

Total Up To 50 Km SM

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