Overview

VILINK third generation Optical Mux: The AM580 is a CWDM Optical Add & Drop Multiplexer that is designed to do add/drop functions up to 8 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 8 times and can transfer up to 5 GB of digital data per channel to each new location. The Master unit AM5580 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 AM580 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 AM580 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

- *Add/Drop up to 8 Full Duplex SFP Channels*
- *Expand up to 7 locations*
- *Maximize fiber capacity up to 40 GB data*
- *LAN/WAN, SAN High Speed Signals*
- *Data speed from 100 Mbps up to 4.8 Gbps*
- *Up to 80 Km Per Ring*
- *100% Protocol Independent I/O*
- *Selectable SFP from 1.25 GB, 2.48 GB and 4.8 GB per I/O Channels*
- *Network Management System (NMS) W/GUI*
- *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*

Ordering Information

Model	Descriptions
AM580ST-12	8-Channel Optical Add/Drop Mux System, Master Unit, 1.25 GB SFP, 90~240 VAC
AM580ST-24	8-Channel Optical Add/Drop Mux System, Master Unit, 2.4 GB SFP, 90~240 VAC
AM580ST-48	8-Channel Optical Add/Drop Mux System, Master Unit, 4.8 GB SFP, SM, 90~240 VAC

*** Please Consult Factory for Additional Model Numbers***

System:

Error Rate	1 in 10^{12} or Better
NMS	GUI, RS-232 Ports
NMS Connector	RJ11
Indicators	PWR, TX1-8, RX1-8
I/O Channels	Full Duplex
Data Rate	100 MB to 4.8 GB per Channel
Protocol	100% Transparency

Environment:

Operating	-34^0 C to $+74^0$C
Storage	-40^0C to $+95^0$C
Humidity	98% Non-Condensing

Physical:

Dimensions	19" x 10" x 1.75"
Weight	5 lbs

Power:

Rack mountable	90~240 VAC

Optical Composite Interface:

Transmitter	CWDM Lasers
Receiver	SM CWDM & PIN-TIA
Data Rate	8 x 4.8 Gbps
Distance	80 Km @ per Ring
Connector	ST, SFP

Optical I/O Interface:

Channel	8 SFP Ports
Transmitter	850/1310/1550nm Lasers
Receiver	PIN-TIA
Data Rate	Up to 4.8 Gbps
Distance	Based on Selected SFP Modules

10/100M Ethernet Interface: (Optional)

Channel	1
Network Standard	IEEE802.3u 100Base TX/FX
Auto Re-connect	512 bits collision-free packet
Support	VLAN, Tag VLAN, MTU. MPLS, PPPOE
Indicators	PWR, Link, TD, RD, TX, RX

Applications

Up to 80 Km

AM580   AM581   AM582   AM584

DSLAM, ROUTER, SONET, SAN, ESCON, ITS/CCTV, HD/SDI

Typical AM580 Application