



## Overview

VILINK third generation Optical Mux: The AM581/2/3/4 is a 1/2/3/4 Channels Pre-programmed CWDM Optical Add & Drop Multiplexer that is designed to do add/drop functions in the 8 Channels Add/Drop Multiplexer System. This Slave unit AM581/2/3/4 is normally located at the remote location, connecting to other slave units and the master unit at the central location via a one pair of single mode fiber optic cable.

With the optical I/O state-of-the-art versatile designed, the AM581/2/3/4 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 AM581/2/3/4 is ideal for high speed leased fiber, SAN, Telco feeder, SCADA, Enterprise and Corporate Networks. The AM584 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
- LAN/WAN, SAN High Speed Signals
- Data speed up to 4.8 Gbps Per Channel
- Up to 80 Km distance Per Ring
- 100% Protocol Independent I/O
- Selectable SFP from 1.25 GB, 2.48 GB and 4.8 GB per I/O Channels
- No Bandwidth Penalty
- Network Management System (NMS) W/ GUI
- 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
AM581ST-12	1-Channel Optical Add/Drop Mux, 1.25 GB SFP, SM ST, 90~240 VAC
AM582ST-12	2-Channel Optical Add/Drop Mux, 1.25 GB SFP, SM ST, 90~240 VAC
AM583ST-25	3-Channel Optical Add/Drop Mux, 2.5 GB SFP, SM ST, 90~240 VAC
AM584ST-48	4-Channel Optical Add/Drop Mux, 4.8 GB SFP, SM ST, 90~240 VAC

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

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
NMS	GUI, RS-232 Ports
NMS Connector	RJ11
Indicators	PWR, TX1/2/3/4, RX1/2/3/4
I/O Channels	Full Duplex
Data Rate	100 MB to 4.8 GB per Channel
Protocol	100% Transparency
<b>Environment:</b>	
Operating	-34 <sup>o</sup> C to +74 <sup>o</sup> C
Storage	-40 <sup>o</sup> C to + 95 <sup>o</sup> C
Humidity	98% Non-Condensing
<b>Physical:</b>	
Dimensions	19" x 10" x 1.75"
Weight	5 lbs
<b>Power:</b>	
Rack mountable	90~240 VAC

<b>Optical Composite Interface:</b>	
Transmitter	CWDM Lasers
Receiver	SM CWDM & PIN-TIA
Data Rate	8 x 4.8 Gbps
Distance	80 Km @ single Mode Per Ring
Connector	ST, SFP
<b>Optical I/O Interface:</b>	
Channel	1/2/3/4 SFP Ports
Transmitter	850/1310/1550nm Lasers
Receiver	PIN-TIA
Data Rate	Up to 4.8 Gbps
Distance	Based on Selected SFP Modules
<b>10/100M Ethernet Interface: (Optional)</b>	
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

