



We Are Optical Networking

## AM2558 – OC3/OC12 to OC-48 Multiplexer

Multiplex any valid combination  
of OC-3 and OC-12  
Signals into an OC-48

Avvio Networks' AM2558 Multiplexer is an optical edge device that converts up to 16 OC-3 or 4 OC-12 signals at 1310nm or 1550nm into an OC-48 signal at 1310nm, 1550nm or a DWDM wavelength. The AM2558 is well suited to multiplex existing OC-3 and OC-12 equipment to OC-48 at a fraction of the cost of replacing the equipment.

The AM2558 has 8 SFP client interfaces and 1 SFP line interface. All SFPs are user-accessible.

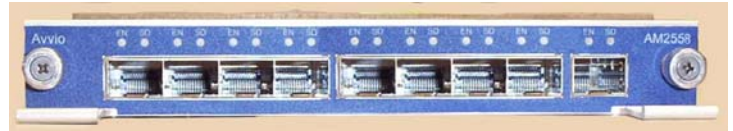
The AM2558 can also be user configured to multiplex 4 OC-3 signals into an OC-12, or can be used as an OC-48 repeater/regenerator. When used with an AM2554 module, up to 16 OC-3 signals can be multiplexed into an OC-48.

The AM2558 re-times, re-generates and re-shapes the optical signals for increased data reliability. Data can be clocked using an internal source, or any incoming clock. The AM2558 also features non-intrusive SONET/SDH overhead monitoring and can be configured to trigger alarms based on a number of error conditions. It offers DCC support on the OC-3, OC-12 and OC-48 channels.

The AM2558 can also be linked to a second AM2558 for redundancy, or it can be configured for line-side redundancy with an AM2554.

An AM2550 module can also be used with the AM2558 to provide OTU-1 encapsulation for the OC-48 signal.

Contact Avvio Networks for more information on the AM2550 or the AM2554



### Features

Leverage 1310, or 1550nm  
equipment onto DWDM networks

Non-Intrusive SONET/SDH overhead  
monitoring

Supports Concatenated Payloads

Meets applicable SONET timing and  
jitter specifications

The AM2558 Multiplexer is a member of Avvio Networks' family of intelligent optical networking products. For more information, please send an email to: [sales@avvionetworks.com](mailto:sales@avvionetworks.com) . Avvio Networks is a trademark of Avvio Networks.

Avvio Networks' advanced optical networking products set the standard for a new breed of cost-effective networks and services.

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## Technical Specifications

### System Level

Data Rates	OC-3, OC-12 and OC-48
Clocking	Meets applicable SONET/SDH wander and jitter specifications.

### Optical Interfaces

Options:	1310nm short, intermediate or long reach. (Optional 1550nm lr)
Receiver sensitivity (SR)	-3 to -20dBm
Transmitter	-6dB typ

### System Management (via AM2502 Controller blade)

Craft Port	RS-232 (9600, 8, N, 1)
Remote Provisioning	Telnet, SNMP (V2)
MIBs supported:	Avvio Networks Enterprise MIB.

### Power Requirements

Power Input	-40 to -72VDC (-48VDC nom)
Power Consumption	15W typical, 25W maximum (Depending on interfaces installed)

### Environmental (when installed in AM2500 Chassis)

Operating Temperature, Relative Humidity, Vibration, Shock and Flammability	Meets Bellcore NEBS (GR63) TR-NWT-0000-63 Level 3
EMI, EMC	Complies with FCC part 15 class A, UL950 and CE, and NEBS requirements

### Dimensions

Chassis size	~6" X 9" X 1" (1 slot wide) (1 slot in an A2050 or A2500 Chassis)
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Note: Specifications are subject to change without notice

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