

Avvio Networks

AM2580 10 Gigabit Regenerator/Repeater

10 Gigabit Optical Regenerator/Repeater with monitoring and DWDM

Avvio Networks' AM2580 repeater is an optical regenerator/repeater for OC-192 SONET/SDH or 10Gb Ethernet data streams at 1310nm, 1550nm, or DWDM wavelengths. It can also be used to convert 1310nm or 1550nm optical data to a DWDM wavelength on an ITU channel. The AM2580 is a single-width card for use in the A2500 ADM chassis.

The AM2580 re-times, re-generates and re-shapes the optical signals for increased data reliability. The data can be clocked using either incoming clock or an internal source.

The AM2580 also provides performance monitoring via the AM2502 Controller card. The AM2502 provides SNMP support, a craft port for management over a serial link and Telnet for remote management using Avvio Networks' command line interface.

For OC-192 applications, the AM2580 can be configured as a SONET regenerator. It can also be configured as a physical layer repeater, passing data through untouched, i.e., without SONET Section termination. Client Side access is from a user-accessible XFP.

With an optional extended reach interface, the AM2580 can be used at distances up to 200km over SMF-28 fiber without adding external dispersion compensation.



Features

Client side access from user-accessible XFP or another module

Supports OC-192 or 10-Gigabit Ethernet, with FEC (G.709 or Proprietary)

Software selection from SONET regenerator to fully transparent optical repeater

SONET Performance Monitoring

Meets applicable SONET timing and jitter specifications

Optional Extended Reach Interface - 200km w/o Dispersion Compensation

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	9.95, 10.7 Gb/s (SONET) 10.3, 11.1 Gb/s (Ethernet) (Other rates available)
Clocking	Meets applicable SONET/SDH wander and jitter specifications.
BER	<10 ⁻¹²

DWDM Interface (Line)

Channel Spacing	50, 100GHz (DWDM), or Tunable
Transmitter	Complies with GR-253 Core and applicable ITU-T G.957 standards.
Receiver	Full C band tuning for models with tunable option Pin or APD
Dispersion Tolerance	Up to 3600 ps/km with extended reach interface (Contact Avvio Networks for details)

850/1310/1550nm Interface (Client)

Transmitter	850nm, 1310nm short reach or intermediate reach, 1550nm long reach
Receiver sensitivity	0 to -22dBm Contact Avvio Networks for specifications on SR, IR and LR interfaces

System Management (via AM2502 Controller blade)

Craft Port	RS-232 (9600, 8, N, 1)
Remote Provisioning	Telnet, SNMP (V2)
MIBs supported: (MIB-II)	3592, 3591, 2863, 3418, 2011, 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)

Temperature, Relative Humidity, Vibration, Shock, 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

Card size	~6" X 9" X 1" (1 slot wide)
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Specifications subject to change without notice

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