

Avvio Networks

A1040 - 4 X OC-48 to OC-192 Multiplexer

Multiplex 4 OC-48 Signals Into An OC-192 Signal

Avvio Networks' A1040 Multiplexer is an optical edge device that converts 4 OC-48 signals at 1310nm or 1550nm into an OC-192 signal at 1310nm, 1550nm or a DWDM wavelength. The A1040 is well suited to multiplex existing OC-48 equipment to OC-192 at a fraction of the cost of replacing the equipment.

The A1040 re-times, re-generates and re-shapes the optical signals for increased data reliability. Data can be clocked using an internal source, any incoming clock. The A1040 also features non-intrusive SONET/SDH overhead monitoring and can be configured to trigger alarms based on a number of error conditions.

The A1040 installs in minutes, greatly reducing the time required to add new capacity to a network. It can be used in conjunction with Avvio Networks' A1020 regenerator and A15XX passive OADMs for a complete end-to-end solution.

With optional G.709 or proprietary enhanced FEC, the A1040 sets the standard for low-cost, high-speed data transmission. The A1040 also supports an Extended reach option, allowing links up to 200kmm without costly dispersion compensation.

Available options include VSR, SR, and IR 1310nm and 1550nm fixed lasers, 100Ghz DWDM and widely tunable DWDM lasers. For long-haul applications, please contact Avvio Networks.



Features

Extended Reach option - up to 200km
without Dispersion Compensation

Leverage 1310, or 1550nm
equipment onto DWDM networks

Non-Intrusive SONET/SDH overhead
monitoring

Supports Concatenated Payloads

Meets applicable SONET timing and
jitter specifications

Optional G.709 FEC
Optional Tunable DWDM laser
(covers the entire C band)

The A1040 Multiplexer is a member of Avvio Networks' family of intelligent optical networking products. For more information, please send an email to: sales@avvionetworks.com. Avvio Networks is a trademark of Avvio Networks.

Technical Specifications

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

Full C band tuning range (On models with tunable laser option)

Avvio Networks
11 Donovan Dr
Bedford, MA 01730

(978) 453-5200

email:
sales@avvionetworks.com
www.avvionetworks.com

System Level

Data Rates	2.5 Gb/s and 9.953 Gb/s (optionally 10.7 Gb/s w/FEC and Extended Reach)
Clocking	Meets applicable SONET/SDH wander and jitter specifications.
Dispersion Penalty	(BER= 10 ⁻¹²) 2 dB (3600 ps/nm for Extended Reach)

OC-192 Interface

Interface	1550nm, 50 or 100GHz (DWDM) Complies with GR-253 Core and applicable ITU-T G.957 standards.
Receiver sensitivity	-9 to -22dBm
Transmitter (LR)	0dB typ

OC-48 Interface

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

System Management

Remote Provisioning	SNMP
Craft Port	RS-232 asynchronous interface 9600, 8, N, 1

Power Requirements

Power Input	-40 to -58VDC (-48VDC nom)
Power Consumption	67W typical, 80W maximum

Environmental

Operating Temperature, Relative Humidity, Vibration, Shock and Flammability	Designed to comply with Bellcore NEBS (GR63) TR-NWT-0000-63
EMI, EMC	Complies with FCC part 15 class A, UL950 and CE, GR-1089

Dimensions

Chassis size	3.5" X 17" X 15" (19" rack mount)
--------------	--------------------------------------

Note: Specifications are subject to change without notice

Copyright © 2005 Avvio Networks. All rights reserved. Avvio Networks is a trademark of Avvio Networks

Lit number: A1040.7