

Avvio Networks

AM4030/32/34 EDFA

Dense Wavelength Division Multiplexing (DWDM) Amplification for Long Haul and Metro Networks

Preliminary

Avvio Networks' AM4030, AM4032, and AM4034 are a family of controlled optical amplifiers featuring variable gain and transient suppression. The AM4034's maximum optical output of 17 dBm and variable gain range of 10 dB to 25 dB make the module suitable for pre-amp, inline, or booster amplifier applications.

The AM403X family features gain-transient suppression that minimizes transmission penalties as channels are added and dropped in the network, or as input power varies.

They can be managed through the AM2502 controller card's console interface through its Ethernet interface using standard SNMP or Telnet commands.

The AM403X reports alarm status via the AM2502 for complete network management capabilities.

The AM4034 offers mid-stage access for Dispersion Compensation. It is compatible with Avvio Networks AM4040 Dispersion Compensation module, or any other Dispersion compensation product.

There are several variations available. Contact Avvio Networks for specifications

Features

Adjustable Variable Gain

Transient Suppression

Wide input power dynamic range

Constant gain, power, and current modes

Alarm indication

Supports up to 40 channels

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

Parameter	Min	Max	Units
Signal wavelength *	1530.33	1563.05	nm
Total input signal power	-29	+7	dBm
Total output signal power		+17	dBm
Signal gain	+10	+25	dB
Absolute gain variation		1.25	dB
Dynamic gain variation	0.4	2.5	dB
Gain flatness **		2.0	dB
Noise figure ***		5.5	dB
Transient suppression time		2	ms
Transient Over/Undershoot		2	dB
System Management (via AM2502 Controller Card)			
Remote Provisioning	SNMP, Telnet		
Craft Port	RS-232 asynchronous interface 9600, 8, N, 1		
Power Requirements			
Power Input	-40 to -70VDC (-48VDC nom)		
Power Consumption	86W typical, 100W maximum		
Environmental			
Operating Temperature, Relative Humidity, Vibration, Shock and Flammability	Complies with Bellcore NEBS (GR63) TR-NWT-0000-63 and ETSI ETS 300-19-1		
EMI, EMC	Complies with FCC part 15 class A, ETSI EN50082-1		
Dimensions			
Chassis size	~12 X 9" X 2" (1 slot in the A4000 chassis)		

* Full C Band

** Under all operating conditions

*** At high gain

Note: these specifications are subject to change without notice

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