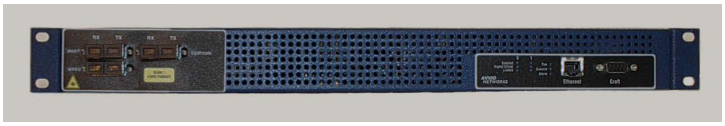
Avvio Networks

A1070 Inline EDFA

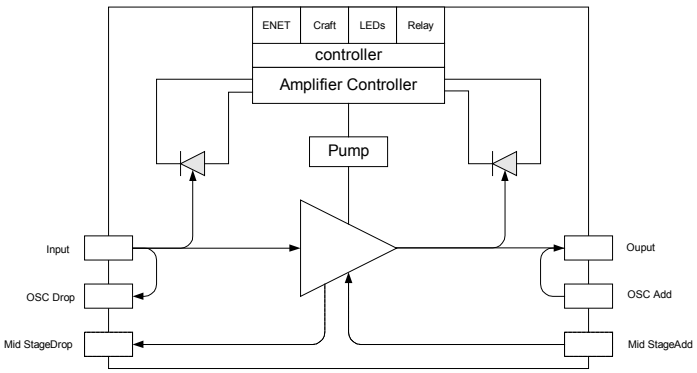


Dense Wavelength Division Multiplexing (DWDM) Amplification for Long Haul and Metro Networks

Avvio Networks' A1070 EDFA is a controlled optical amplifier that features variable gain and transient suppression. The maximum optical output of 20 dBm and variable gain range of 10 dB to 25 dB make the module suitable for most applications. The A1070 is available in pre-amp, inline, or booster amplifier configurations.

The A1070 features gain-transient suppression that minimizes transmission penalties as channels are added and dropped in the network, or as input power varies.

The A1070 can be managed either through the RS-232 serial interface locally or through its Ethernet interface using standard SNMP commands. The A1070 reports alarm status for complete network management capabilities.



Block Diagram (Shown with optional Mid-Stage Access)

Features

Adjustable Variable Gain

Transient Suppression

Wide input power dynamic range

Constant gain, power, and current modes

Alarm indication

Supports up to 40 channels

Optional Mid-stage Access

The A1070 Amplifier 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

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

Ordering Information:

A1070-T-O

T = P (Pre-amp),
M (mid-stage),
B (booster)
O = S
(Supervisory Channel)

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Technical Specifications

The following table lists some general parameters for the A1070 Amplifier. For parameters regarding a specific version (pre-amp, mid-stage or booster amp), please contact Avvio Networks.

Parameter	Min	Max	Units	Notes
Signal wavelength	1530	1562	nm	C Band
Total input signal power	-26	+7	dBm	
Total output signal power		+20	dBm	
Signal gain	+10	+25	dB	
Absolute gain variation		1.25	dB	
Gain flatness		<1.0	dB	all operating conditions
Noise figure		6.0	dB	Worst case at high gain
Transient suppression time		2	ms	
Transient Over/Undershoot		2	dB	
System Management				
Remote Provisioning		Telnet, SNMP		
Craft Port		RS-232 asynchronous interface 9600, 8, N, 1		
Power Requirements				
Power Input		-40 to –58VDC (-48VDC nom)		
Power Consumption		39W typical, 50W maximum		
Environmental				
Operating Temperature, Relative Humidity, Vibration, Shock and Flammability		Designed to comply 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		1.75" X 17" X 12.5" (19" rack mount)		

Note: These specifications are subject to change without notice. Avvio Networks is a trademark of Avvio Networks

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