



ACION 8000 Series

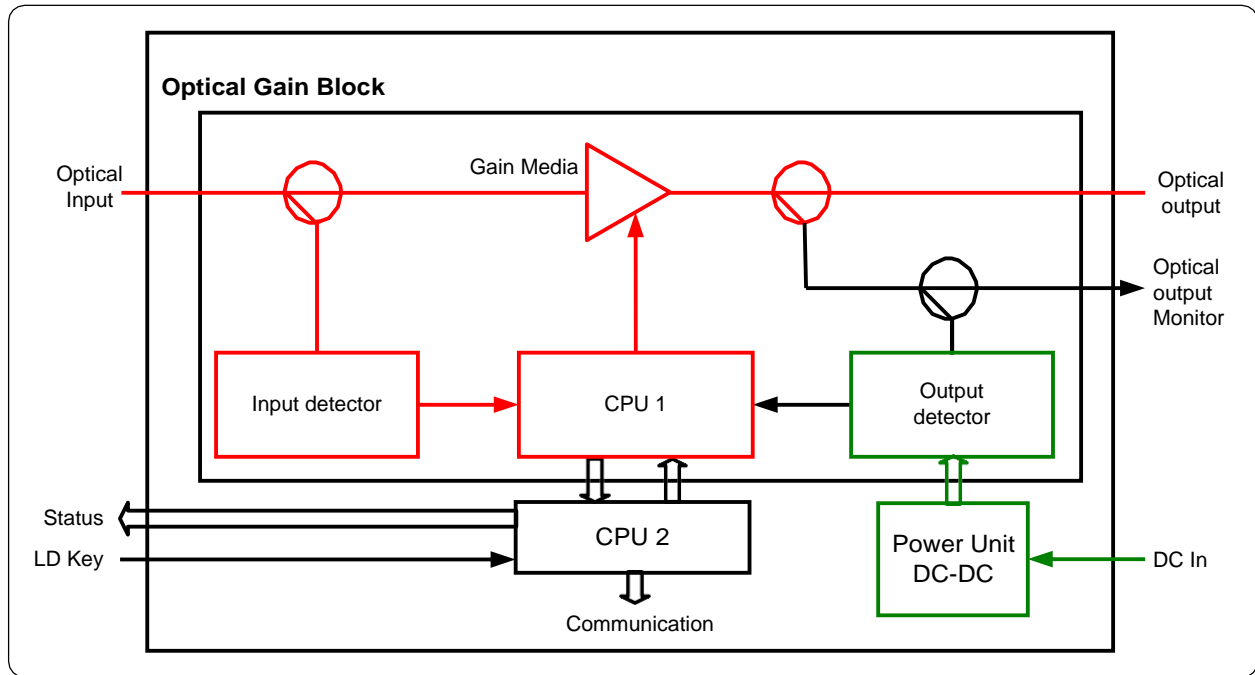
A8KEAM 1550nm (C-Band) EDFA Module

A8KEAM (C-Band) EDFA (Erbium-Doped Fiber Amplifier) module is designed for long-haul or wide broadcast optical fiber systems. It is a compact, highly reliable, scalable and cost-effective unit. The module is hot-swappable with integrated management through A8KPCM2 and remote management by HMS or SNMP. A maximum of 16 application modules can reside in the 19-inch, high-density chassis (A8KMF3). An output monitoring port is available for real-time monitoring without service interruption.

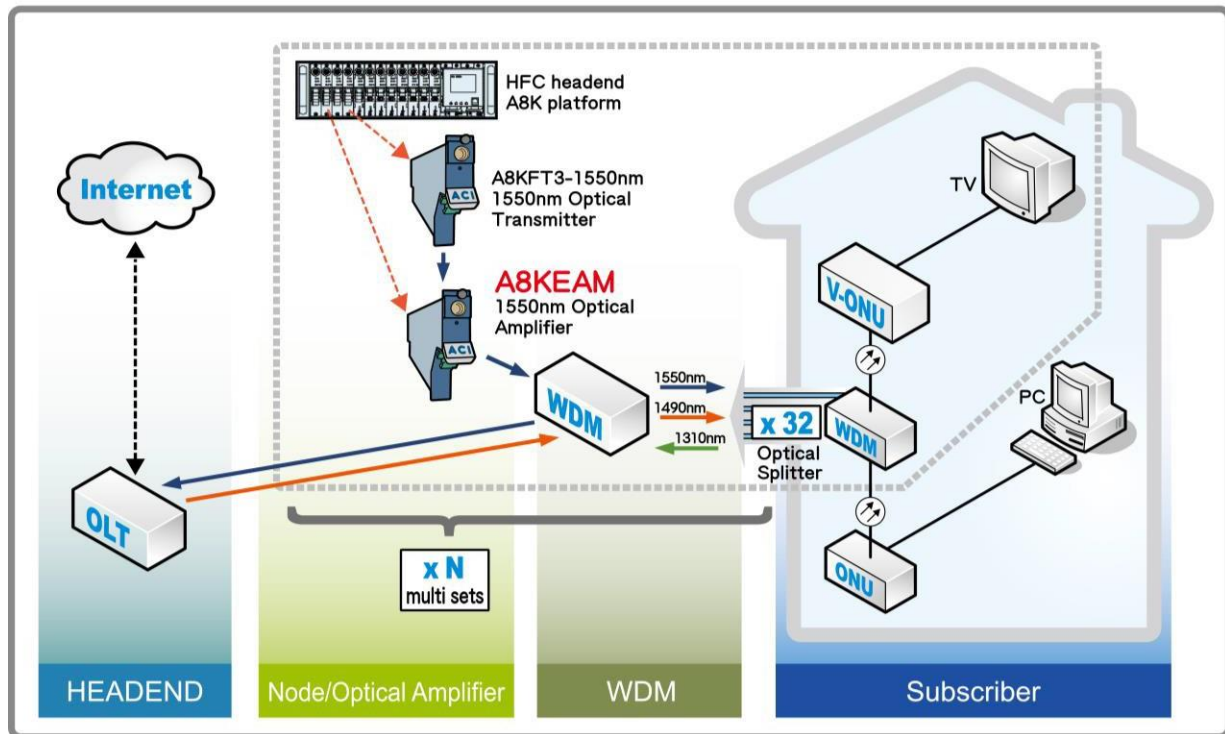
Features

- ◆ Operating frequency: 1540~1560 nm
- ◆ Optical input power from -5 to 8 dBm
- ◆ Optical output power from 17 to 23 dBm
- ◆ Single channel application
- ◆ SMF-28 Type Input / Optical Fiber
- ◆ Low noise figure
- ◆ Low power consumption
- ◆ Hot - swappable
- ◆ Remote control and monitor functions via HMS or SNMP

Block Diagram



Application:



Specifications

ACI		ACION 8000 Series A8KEAM 1550 nm (C-Band) EDFA Module		
PARAMETERS	CONDITIONS	UNITS	SPECIFICATION	NOTES
Optical Specifications				
Optical Wavelength		nm	1540 to 1560	
Connector Type			SC/APC (standard) FC/APC, E2000/APC (optional)	
Optical Input Power		dBm	-5 to +8	
Optical Saturation Output Power		dBm	17 to 23	
Noise Figure	Pin = 0 dBm λ = 1550 nm	dB	5	
Optical Return Loss	Min.	dB	45	
Polarization Dependent Gain	Max.	dB	0.5	
Polarization Mode Dispersion	Max.	ps	1	
Input/Output Optical Fiber			SMF-28	
Electrical/Environmental/Mechanical				
Module Width		Slot	1	
Operating Temperature		°F (°C)	32 to 122 (0 to 50)	
Storage Temperature		°F (°C)	-40 to 149 (-40 to 65)	
Power Supply Voltage		V	24 ± 0.5	
Power Supply Current		A	1.2 @ 24 VDC	
Power Consumption	Max.	W	30	
Relative Humidity	Non-condensing	%	0 to 95	
Dimensions	W x D x H	Inch (mm)	16.1 x 5 x 1 (410 x 127 x 25.9)	
Alarm Functions				
Case Temperature High Alarm		°F (°C)	158 (70)	
Output high/low Alarm		dB	< -2 or > +2	
Input high/low Alarm		dBm	< -5 or > +8	
Pump LD Bias High Alarm		mA	> LD Link Current	LD Shut Down ★1
Pump LD Temp. High Alarm		°F (°C)	> 80.5 (27)	
Pump LD Shutdown by Input Power		dBm	< -12	

★1: LD Output Shut Down Function by LD Bias high, LD Temperature high, or low Input Power.

Ordering Matrix

A8KEAM 1550nm (C-Band) EDFA Configuration Sheet

Customer: _____

Created By: _____

ORDERING MATRIX

2010/5/13

Position		1	2	3	4
PART NUMBER	A8KEAM-1550nm	—		—	

1-2 Output Power

1	7	= 17 dBm
1	8	= 18 dBm
1	9	= 19 dBm
2	0	= 20 dBm
2	1	= 21 dBm
2	2	= 22 dBm
2	3	= 23 dBm

3.4 Connector

S	C	= SC/APC with shutter (standard)
F	C	= FC/APC (option)
E	C	= E2000/APC (option)

NOTES:



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