



ED5219CH Series

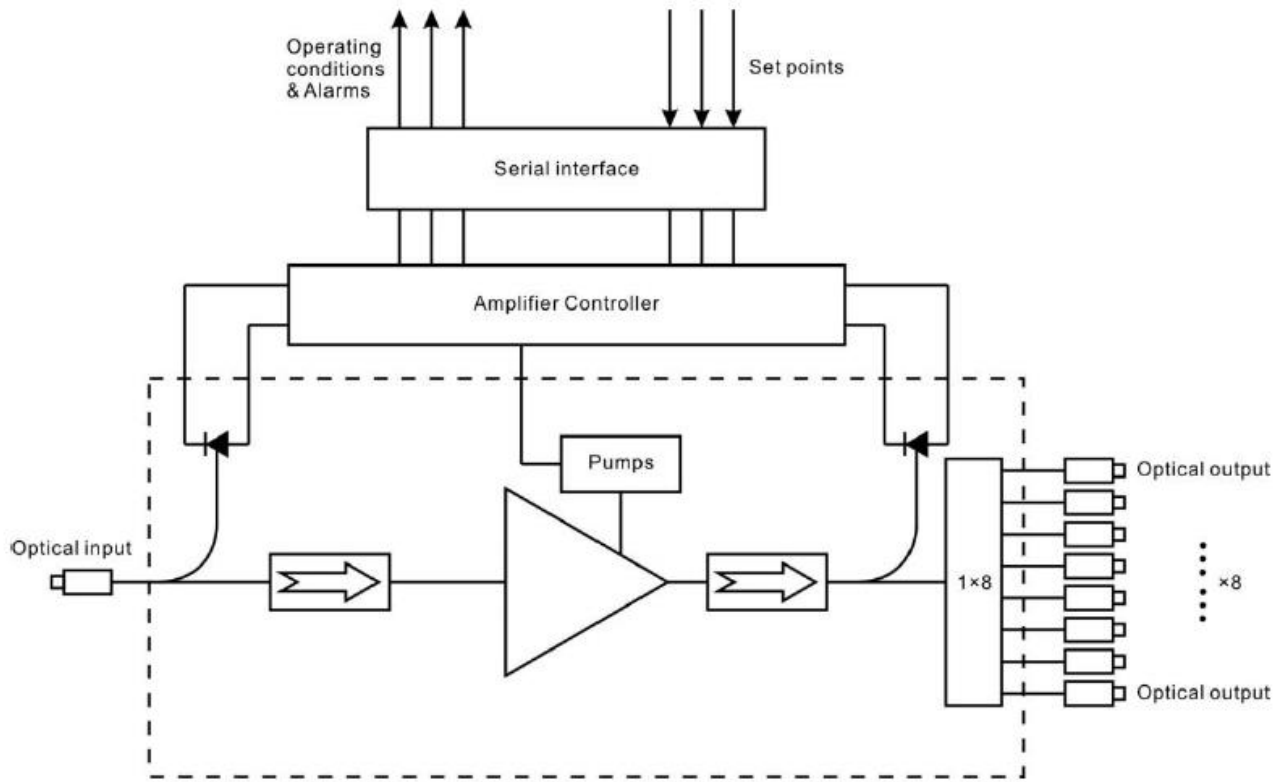
CATV Single Channel EDFA

The ACI ED5219CH EDFA is operated on constant output power mode, single channel EDFA designed to amplify channels in the wavelength range from 1540nm to 1560nm. The ACI ED5219CH EDFA has a maximum total output power as defined. The monitoring, alarm functions and system information are provided with real time display on the front LCD panel and LED indicators. RS232 interface for remote control is available, and RJ45 interfaces for SNMP management is available by option.

Features

- A high performance optical output driver circuit and laser TEC to provide a highly reliable EDFA.
- A Built-in microprocessor allows the unit to monitor the system parameters.
- The pump laser auto shut down function (optional)
- LED indicator on the front panel shows the alarm status.
- LCD display on the front panel shows the monitor parameters.
- Support firmware upgrade download.
- SNMP for network management (optional).
- Hot SWAP power supply module available (option)
- 1540~1560 nm operating wavelengths range
- 1, 4, or 8 output ports

Block Diagram



Specifications

ACI			ED5219CH Series EDFA			
PARAMETERS	CONDITIONS	UNITS	SPECIFICATION			NOTES
Absolute Maximum Ratings			Value Min.	Value Max.		
Operating Case Temperature		°C	0	50		
Storage Case Temperature	2000 hrs Max.	°C	-20	+70		
Electrostatic discharge (ESD)	C=100pf, R=1.5R Human body	V	0	1000		
Relative humidity	Noncondensing	%	20	80		
Power Consumption	@13 ~ 17 dBm @18 ~ 22 dBm	Watt		16 24		
Environmental condition			Min.	Typ	Max.	
Operation Case Temperature		°C	0		50	
Operation Humidity		%RH	20		80	Without Condensation
Storage Case Temperature		°C	-20		70	
Storage Humidity		%RH	20		80	Without Condensation
Optical Specifications			Min.	Typ	Max.	
Optical Wavelength	In vacuum	nm	1540	-	1560	
Total Input Power	@ $\lambda_{OP}=1550\text{nm}$	dBm	-5		+8	
Saturated Output Power	@ $P_{in} \geq -5 \text{ dBm}$ @ $\lambda_{OP}=1550\text{nm}$	dBm	P_{out}	$P_{out} + 0.3$	$P_{out} + 1$	
Output Power Stability	Over λ_{OP}	dB			0.5	
Noise Figure @ $P_{in}=0\text{dBm}$	$\leq 23 \text{ dBm}$	dB	-		5.0	
PDG	Over λ_{OP}	dB	-	-	0.5	
PMD	Over λ_{OP}	ps	-	-	0.5	
Return Loss	All ports	dB	45			
Input Isolation		dB	25			
Output Isolation	$\leq 17 \text{ dBm}$ $\leq 23 \text{ dBm}$	dB	25 45			
Operating Case Temperature	Over λ_{OP}	°C	0		50	
Pump Laser Used	@ $\leq 22 \text{ dBm}$ @ 23 dBm			1 2		
Residual Pump LD Power	970 ~ 980 nm	dBm			-30	
Control Mode	APC/ACC			APC		
Mechanical Specifications						
Dimension	W x L x H	mm	482.6 x 363.2 x 44.5			19" 1RU
Power Supply		V	Single Power, 100~240VAC, 50/60Hz -48 VDC ($\pm 12 \text{ VDC}$)			Connector: CNS6797
Pump Laser Switch			Key Switch			
LED Indicators			Power, Input, Output, System			
LCD Display			Array 2x24			
User Interface			RS232 · RJ45 (option)			
Optical Connector			SC/APC(Standard), FC/APC(Option)			

Ordering Matrix

ACI ED5219CH Series EDFA Configuration Sheet

Customer _____

Created By: _____

Order Date: _____

ORDERING MATRIX

October 25, 2016

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PART NUMBER	E	D	5	2	1	9	C	H		—		—					

9 CONTROL INTERFACE

- 0: None (Default)
- 1: SNMP (RJ45)
- 2: RS232

11 OUTPUT PORT

- 1: 1 output port
- 2: 2 output ports
- 4: 4 output ports
- 8: 8 output ports

13 OUTPUT POWER (per port)

Single port only

- 13: 13 dBm 20 = 20dBm
- 14: 14 dBm 21 = 21dBm
- 15: 15 dBm 22 = 22dBm
- 16: 16 dBm 23 = 23dBm
- 17: 17 dBm
- 18: 18 dBm
- 19: 19 dBm

15 OPTICAL CONNECTOR

- 1: SC/APC
- 2: FC/APC

16 MAIN POWER

- 1: 110/220 VAC (100~240 VAC)(Default)
- 2: Dual 110/220 VAC (100~240 VAC)
- 3: Dual -48 VDC

17 POWER CORD SETS

- 0 = None
- 1 = North America
- 2 = International / Europe
- 3 = Japan
- 4 = Australia
- 5 = Argentina
- 6 = DC Wire Set.(AWG14)
- X = Custom - (Determined by product)

NOTES:



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