



ED5219CH Series

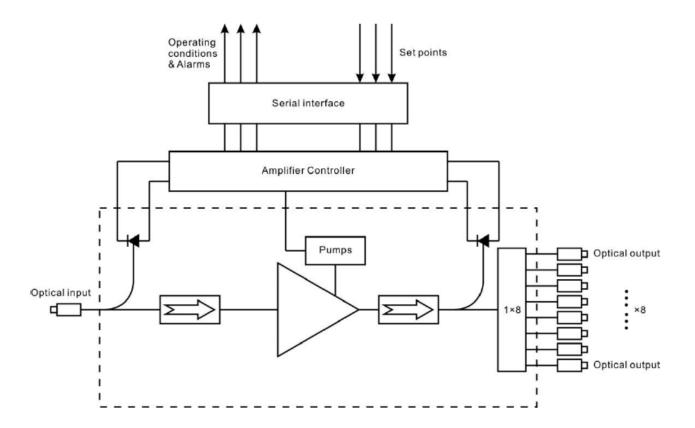
CATV Single Channel EDFA

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 Diagrams



Specifications

AOI						EDEC460	
ACI		I					CH Series EDFA
PARAMETERS	CONDITIONS	UNITS		SPE	NOTES		
Absolute Maximum Ratings	l	Value Min.		Va	lue 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	Non condensing	%	20			80	
Power Consumption	@13 ~ 17 dBm @18 ~ 22 dBm	Watt				16 24	
Environmental condition			Min.	Ту	/p	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.	Ту	/p	Max.	
Optical Wavelength	In vacuum	nm	1540	-	-	1560	
Total Input Power	@ λ _{OP} =1550nm	dBm	-5			+8	
Saturated Output Power		dBm	Pout	Pout +0.3		Pout +1	
Output Power Stability	Over λ_{OP}	dB				0.5	
Noise Figure@Pin=0dBm	≤ 23 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	≤ 17 dBm ≤ 23 dBm	dB	25 45				
Operating Case Temperature	Over λ_{OP}	°C	0			50	
Pump Laser Used	@ ≤ 22 dBm @ 23 dBm			1 2			
Residual Pump LD Power	970 ~ 980 nm	dBm				-30	
Control Mode	APC/ACC			Al	PC		
Mechanical Specifications							
Dimension	WxLxH	mm	482.6 x 363.2 x 44.5				19" 1RU
Power Supply		V	Single Power, 100~240VAC, 50/60Hz -48 VDC (±12 VDC)				Connector : CNS6797
Pump Laser Switch			Key Switch				
LED Indicators			Power, Ir	nput, C	output,	System	
LCD Display				Array	2x24		
User Interface			RS23	2,RJ	45 (op	tion)	
Optical Connector			SC/APC(Sta	ndard)	, FC/A	APC(Option)	

Ordering Matrix

ORDE	RING MATR	IX			Created By:										Order Date:								
															Octo	ber	25, 2						
	_					1		1						1			_						
	Position	1 2		4	5	6	7	8	9	10	11	12	13	14	15	16	17						
PART	NUMBER	E D	5	2	1	9	С	Н		—		—											
9	CONTROL IN	ITEDEA	CE				15	^	DTIC	AL C	SNINI	=CTC	\D										
	0: None (Defa		CL				13	U		C/AP			/IX										
	1: SNMP (RJ	,							_	C/AP	-												
	2: RS232	43)							۷. ۱	C/AI	C												
	2.110202						16		MAI	N PO	WER	?											
1: 1 output p 2: 2 output p 4: 4 output p 8: 8 output p	OUTPUT PO	PORT						1: 110/220 VAC (100~240 VAC)(Default)								t)							
	1: 1 output po							2: Dual 110/220 VAC (100~240 VAC)															
	2: 2 output po	orts							3: D	ual -4	18 VE	C	,										
	orts																						
	8: 8 output po	orts					17		POWER CORD SETS														
										None													
13	OUTPUT POWER (per port) Single port only								1 = North America 2 = International / Europe														
	10 10 15	•	•	•								al / E	urop	Э									
	13: 13 dBm		20dBn						3 = Japan														
	14: 14 dBm		21 = 21dBm																				
	16: 16 dBm		22 = 22dBm 5 = Argentina 23 = 23dBm 6 = DC Wire Set.(AWG14)																				
	17: 17 dBm	23 –	X = Custom - (Determined by product								ct												
	18: 18 dBm								Λ-	Ousic	,,,,	Dotoi		ару	Jioaa	O.							
_	19: 19 dBm																						



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