



ED5229ST Series

CATV Single Channel EDFA (with Pluggable Cooling fans, fan speed monitoring & alarm / for Outdoor Cabinet Environment)

The ACI ED5229ST EDFA operates at a constant output power mode, the single channel EDFA designed to amplify channels in a wavelength range from 1545 nm to 1563 nm. The ACI ED5229ST EDFA is designed to operate in an outdoor cabinet environment with temperature from -5°C to +65°C. 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 as an option. The unit is designed with ruggedized components for operation in the temperature range from -5°C to +65°C which is suitable for both indoor and outdoor cabinet environment. The ED5229ST has cooling fans on the side walls with fan speed monitoring and fan failure alarm. All of the optical connectors are positioned at a 60 degree angle to the front panel surface for easy fiber routing. The unit has full front-panel access functions including the power supply connections. The unit works for both a 19" or 21" rack by using a mounting adaptor and can be installed vertically or horizontally in the cabinet.

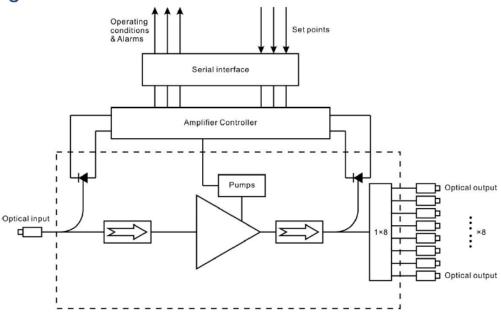
Features

- Operation temperature range: -5°C to +65°C (for outdoor cabinet environment)
- All front panel access

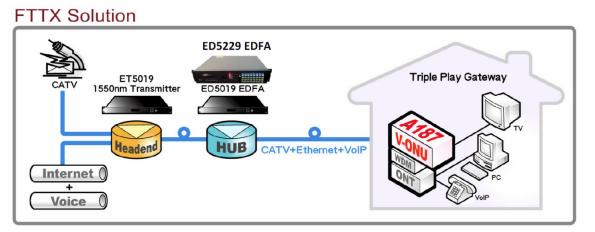
Block Diagram

- Pluggable cooling fans on the side walls
- Fan speed monitoring and failure alarm
- All of the optical connectors are positioned at a 60° angle for easier fiber cable routing
- Fits into a 19" or 21" wide rack and can be mounted horizontally or vertically.
- 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
- A pump laser auto shutdown function is available
- LED indicator on the front panel shows the alarm status
- 1545~1563 nm operating wavelengths range
- LCD display on the front panel shows the system parameters
- Support firmware upgrade download
- Support SNMP for network management
- 1, 4, or 8 output ports

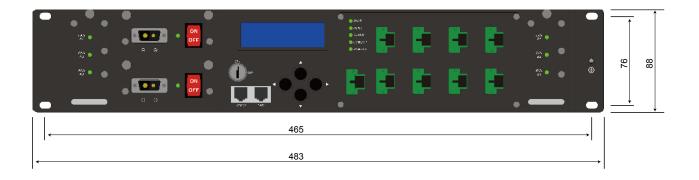


Application Diagram

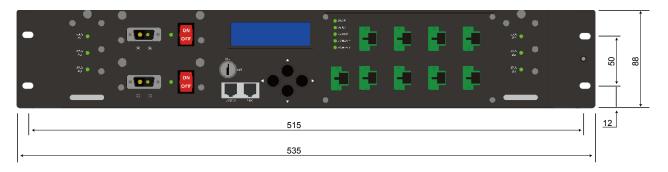


Dimensions

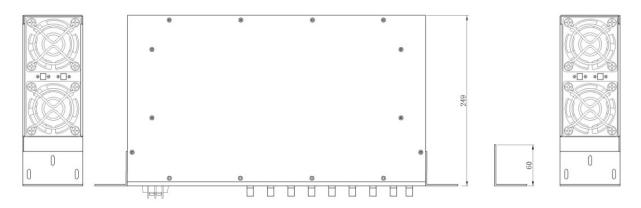
A. Front panel dimensions for 19" Rack Mount



B. Front panel dimensions for 21" Rack Mount



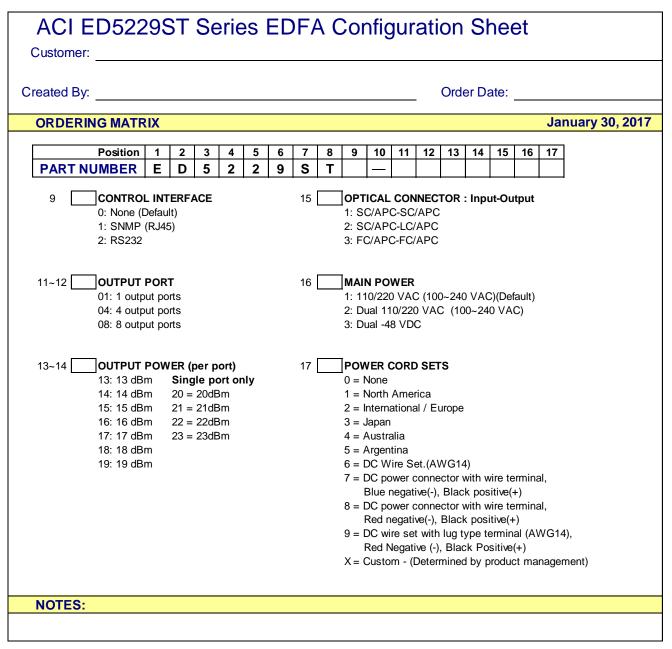
C. Length (Depth) dimension of Chassis with pluggable cooling fans



Specifications

ACI			ED5229ST	Г Seri	es CA	ATV Single	Channel EDFA
PARAMETERS	CONDITIONS	UNITS	SPECIFICATION				NOTES
Absolute Maximum Ratings	solute Maximum Ratings			Value Min. Va		alue Max.	
Operating Case Temperature		°C	-5			65	
Storage Case Temperature	2000 hrs Max.	°C	-40			80	
Electrostatic discharge (ESD)	C=100pf , R=1.5R Human body	V	0		1000		
Relative humidity	Non condensing	%	0		95		
Power Consumption		Watt			50		
Environmental condition			Min.	Ту	p.	Max.	
Operation Case Temperature		°C	-5			65	
Operation Humidity		%RH	0			95	Without Condensation
Storage Case Temperature		°C	-40			80	
Storage Humidity		%RH	0			95	Without Condensation
Optical Specifications			Min.	Ту	'n.	Max.	
Optical Wavelength	In vacuum	nm	1545	-		1563	
Total Input Power	@ λ _{OP} =1550nm	dBm	-10			+10	
Saturated Output Power		dBm	Pout	Pout +0.3		Pout +1	
Output Power Stability	Over λ_{OP}	dB	-0.5			0.5	
Noise Figure @ Pin=0dBm		dB	-	5.5		≤ 6.0	
PDG	Over λ_{OP}	dB	-	-		0.5	
PMD	Over λ_{OP}	ps	-	-		0.5	
Return Loss	All ports	dB	45				
Output Isolation	≤ 17 dBm ≤ 23 dBm	dB	25 45				
Residual Pump LD Power	970 ~ 980 nm	dBm				-30	
Control Mode	APC			AF	PC		
Mechanical Specifications	1	1	1				
Dimension	WxLxH	mm	483 x 249 x 88 mm (for 19" rack) 535 x 249 x 88 mm (for 21" rack)				
Power Supply	Dual power module/ hot standby	v	100~240VAC, 50/60Hz -48 VDC (±12 VDC)				
Pump Laser Switch			Key Switch				
LED Indicators			Power, Input, Output, System				
User Interface			RS232 or RJ45 (options)				
Optical Connector			SC/APC (Standard), FC/APC (Option)				
Optical Connector Orientation	All ports		60 degree angled to the surface of the Front Panel				

Ordering Matrix





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