



# V8816W-8P

8 Ports 1550nm High Power PON EYDFA

## Highlights:



Built-in CWDM



Dual Power Redundancy  
AC/DC Optional



APC, ACC&ATC  
Optical Circuit Design

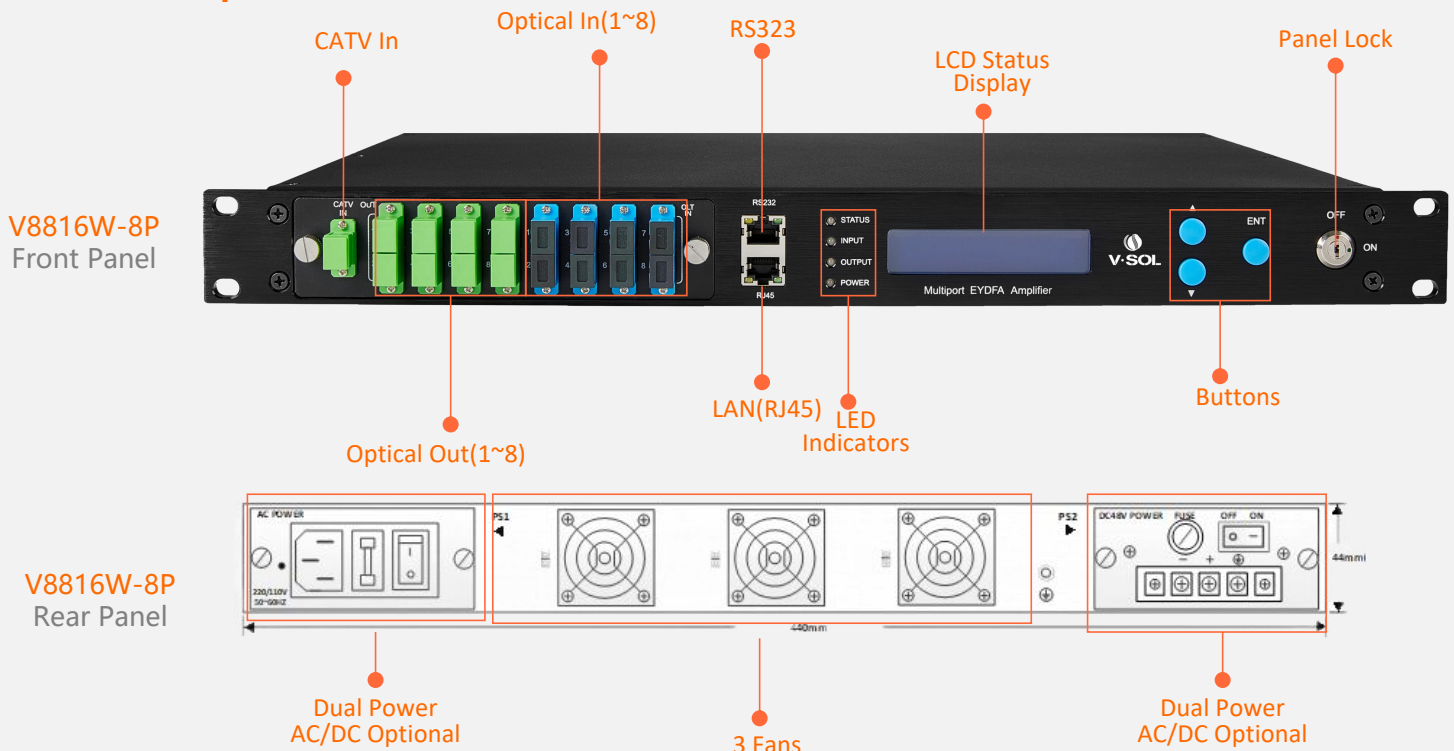


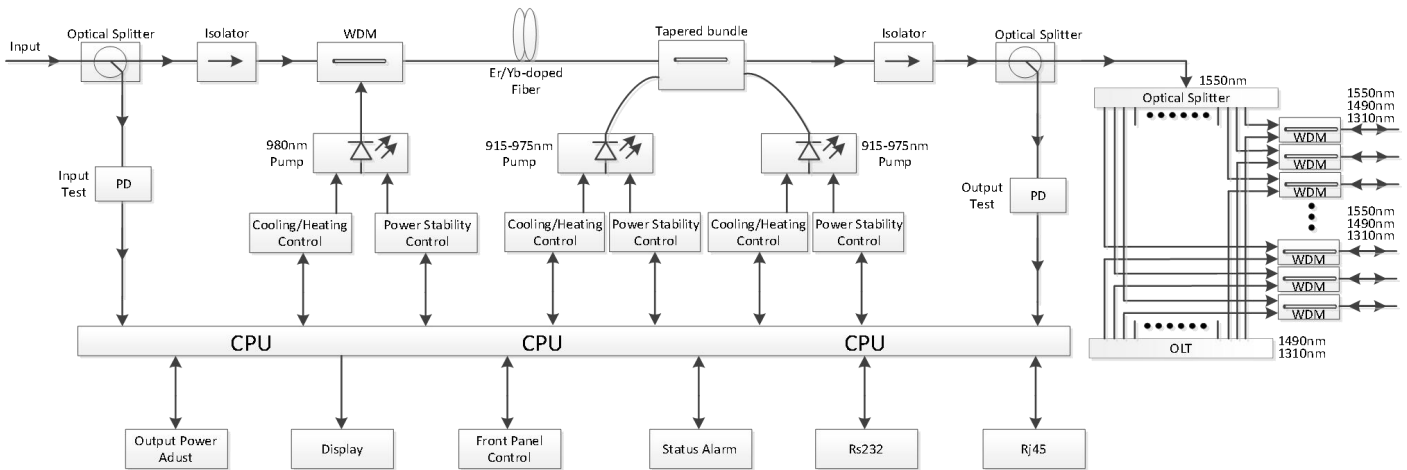
SNMP/Web  
Remote Management

## Introduction:

The V8816W-8P Series 1550nm fiber amplifier combines low-noise EDFA and high-power EYDFA. The total output optical power can reach 37dBm, Optical power of 1550nm per output port not less than 19 dBm/22dBm (optical power level selectable), replacing multiple EDFA units. Each output port is built in with CWDM to multiplex CATV signal and OLT PON Data flow, ideal for FTTH applications. This product offers excellent performance and reliability and supports network management and power redundancy.

## Interface Description:





## Features

- It adopts the top brand pump laser and double cladding active fiber.
- Each output port is built in with CWDM.
- Compatible with any FTTx PON: EPON、GPON、10GPON.
- Perfect APC, ACC and ATC optical circuit design ensures low noise, high output and high reliability of the device in the whole operating band (1545 ~ 1565nm).
- It has the function of automatic protection of low input or no input. When the input optical power is lower than the set value, the laser will automatically shut down to protect the operating safety of the device.
- Output adjustable, adjustment range : 0~-4dBm.
- CATV/PON dual fiber inputs
- The switching time of optical switch is short and the loss is small. It has the functions of automatic switching and forced manual switching.
- Built- in dual power supply, automatically switched and hot plug supported.
- The operating parameters of the whole machine are controlled by microprocessor, and the LCD status display on the front panel has many functions such as laser status monitoring, parameter display, fault alarm, network management, etc.; once the operating parameters of the laser deviate from the allowed range set by the software, the system will alarm promptly.
- Standard RJ45 interface is provided, supporting SNMP and WEB remote network management.

Category	Items	Unit	Index			Remarks
			Min.	Typ.	Max.	
Optical Index	CATV Operating Wavelength	nm	1545		1565	
	OLT PON Pass Wavelength	nm	1310/1490			
	Optical Input Range	dBm	-8		+10	V8816W-8P-19 -3~+10
	Output Power	dBm			37	1dBm interval
	No. of OLT PON Ports	No.			8	SC/UPC
	No. of COM Ports	No.			8	
	CATV Pass Loss	dB			0.8	SC/APC
	OLT Pass Loss	dB			0.8	
	Output Adjustment Range	dB	-4		0	0.1dB each step
	Output Ports Uniformity	dB			0.7	
	Output Power Stability	dB			0.3	
	Isolation between CATV and OLT	dB	40			
	Switching Time of Optical Switch	ms			8	Optional
	Insertion Loss of Optical Switch	dB			0.8	Optional
	Noise Figure	dB			6	Pin: 0dBm
	PDL	dB			0.3	
	PDG	dB			0.4	
	PMD	ps			0.3	
	Remnant Pump Power	dBm			-30	
	Optical Return Loss	dB	45			
Fiber Connector		SC/APC			FC/APC,LC/APC	
General Index	RF Test	dBμV	78		82	Optional
	Network Management Interface		SNMP,WEB supported			
	Power Supply	V	90		265	AC
			-72		-36	DC
	Power Consumption	W			70	Dual power supply, Output 37dBm
	Operating Temp	°C	-5		65	
	Storage Temp	°C	-40		85	
	Operating Relative Humidity	%	5		95	
	Dimension	mm	370×483×44			W、L、H
Weight	Kg	5.5				

## Ordering Information:

Product Name	Product Description	Output Power	Power Configuration
V8816W-8P-19	8*SC/APC(Output)+8*SC/UPC(PON Input)+1*SC/APC(CATV Input)	8*19dBm	2*AC
V8816W-8P-22		8*22dBm	2*DC 1*AC+1*DC