



## V8816W-4P

4 Ports 1550nm High Power PON EYDFA

### Highlights:



Built-in CWDM



Dual Power Redundancy  
AC/DC Optional



APC, ACC&ATC  
Optical Circuit Design

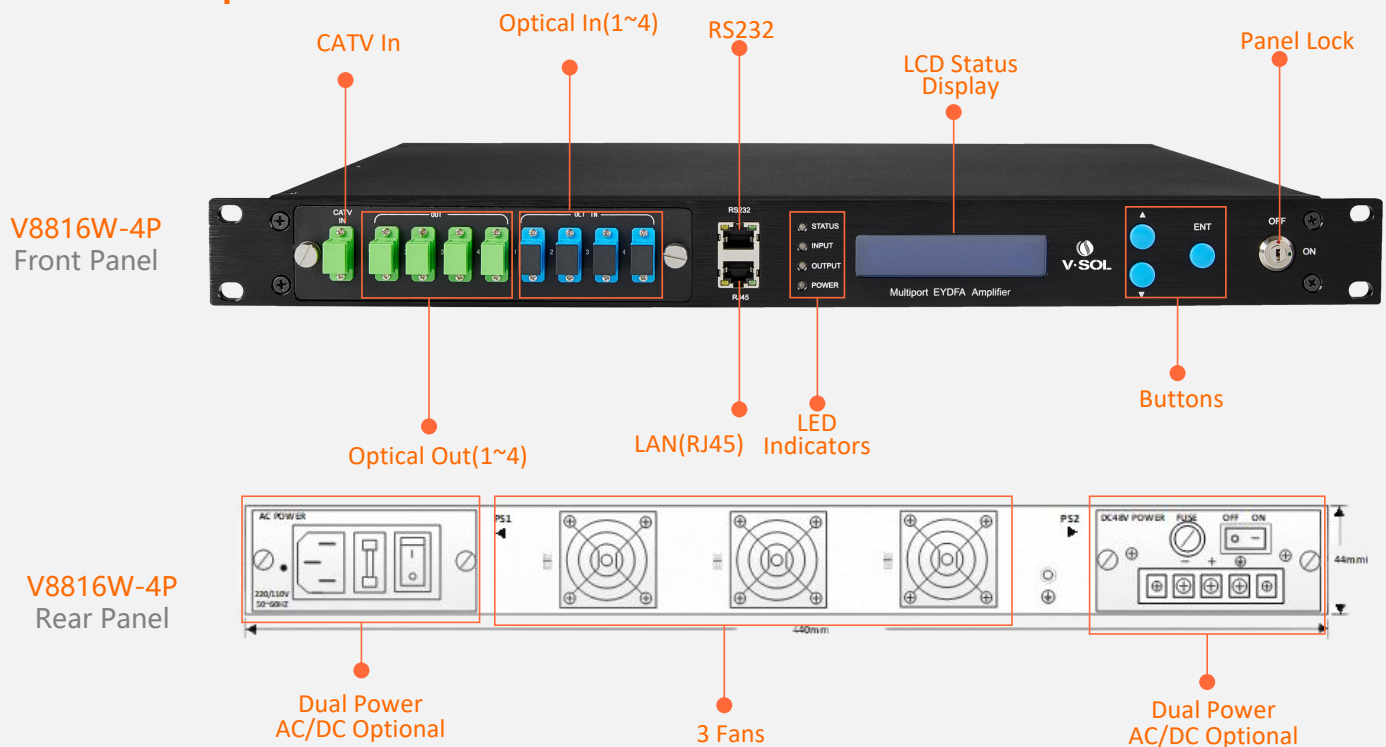


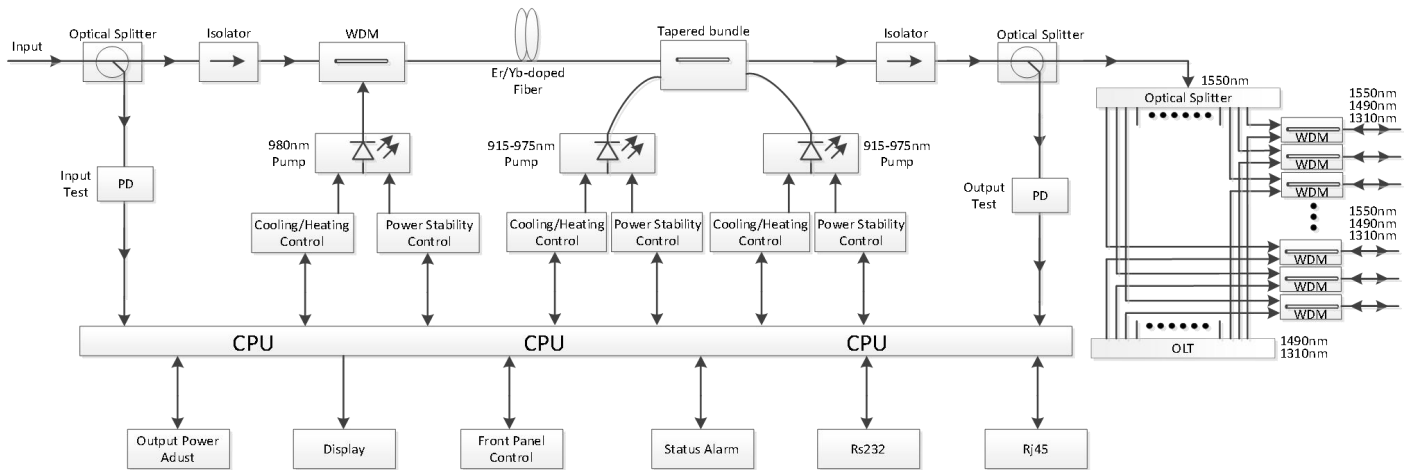
SNMP/Web  
Remote Management

### Introduction:

The V8816W-4P 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   | XPON: 1310/1490<br>10G PON: 1270/1577 |      |      |                                    |
|               | Optical Input Range              | dBm  | -3                                    |      | +10  |                                    |
|               | Output Power                     | dBm  |                                       |      | 37   | 1dBm interval                      |
|               | No. of OLT PON Ports             | No.  |                                       |      | 4    | SC/UPC                             |
|               | No. of COM Ports                 | No.  |                                       |      | 4    |                                    |
|               | 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,<br>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-4P-19 | 4*SC/APC(Output)+4*SC/UPC(PON Input)+1*SC/APC(CATV Input) | 4*19dBm      | 2*AC                |
| V8816W-4P-22 |                                                           | 4*22dBm      | 2*DC<br>1*AC+1*DC   |