

## High Power Optical Amplifier EDFA



### Product overview

HC5155H Fiber amplifier uses highly reliable multimode pump laser and double-clad active fiber, and unique APC and ATC circuits. The maximum total output power can reach 36dBm, and one set of equipment can replace several to more than ten originally needed ordinary fiber amplifiers, which can greatly save costs and maintenance costs. In order to improve the stability of network operation, high power 1550nm optical amplifier will play a more and more important role in the process of continuous extension and expansion of optical network.

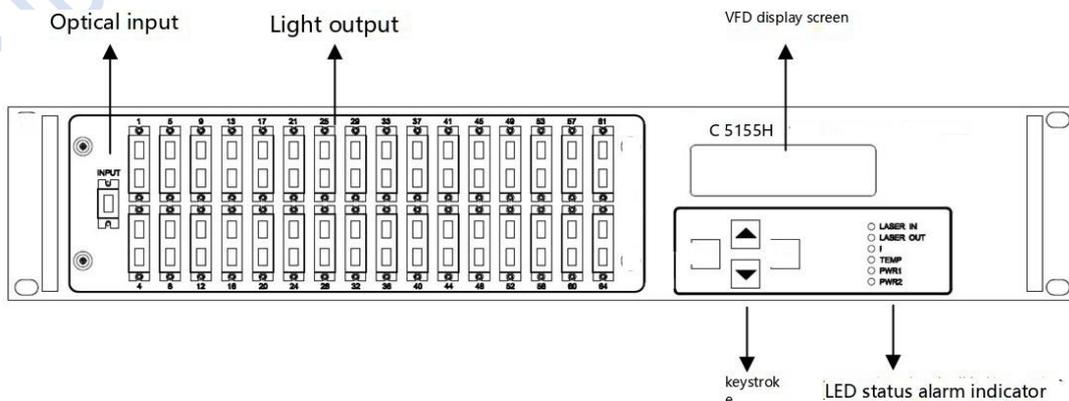
### Product features

-  Use optical devices such as pump lasers and double-clad active fibers of international famous brands.
-  Length optimization of Yb<sup>3+</sup> and Er<sup>3+</sup> co-doped double-clad fiber
-  Excellent residual pump treatment technology
-  Perfect and reliable optical power output stabilization circuit and laser heating and cooling stabilization control circuit ensure the best performance of the whole machine and the long life and stable operation of the laser.
-  Dual power supply design to ensure safe and stable power supply
-  Ultra high power output: up to 4 W total output power
-  8, 16, 32 and 64 optical signal outputs can be realized
-  The RJ45 Ethernet interface supports the SNMP protocol to easily realize the remote network management function
-  With RS232 super terminal interface, the interface is good, which is convenient for users to configure and manage locally.

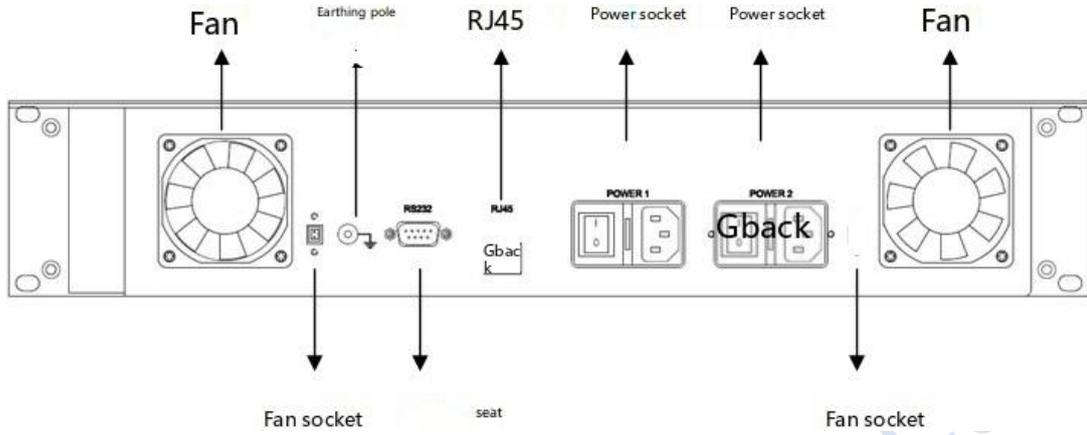
**Technical parameters**

Parameter	Unit	Specification
Output optical power	dBm	27 ~ 36
Number of optical output channels		1 ~ 64
Input optical power	dBm	-3 ~ 10
Operating wavelength	nm	1540 ~ 1560
Output optical power stability	dB	< ±0.2
Polarization sensitivity	dB	< 0.2
Polarization mode dispersion	PS	< 0.5
Optical reflection loss	dB	≥ 45
C/N	dB	≥ 50
CSO	dB	≥ 63
CTB	dB	≥ 63
Fiber optic connector		FC/APC, SC/APC
Noise figure	dB	< 5.5 (0 dBm optical input)
Network management interface		RS232 or RJ45
Power consumption	W	≤ 100
Operating voltage	V	110 ~ 240VAC or 40 ~ 72VDC
Operating temperature	°C	0 ~ 40
Size	mm	482.6×505.5×88.9

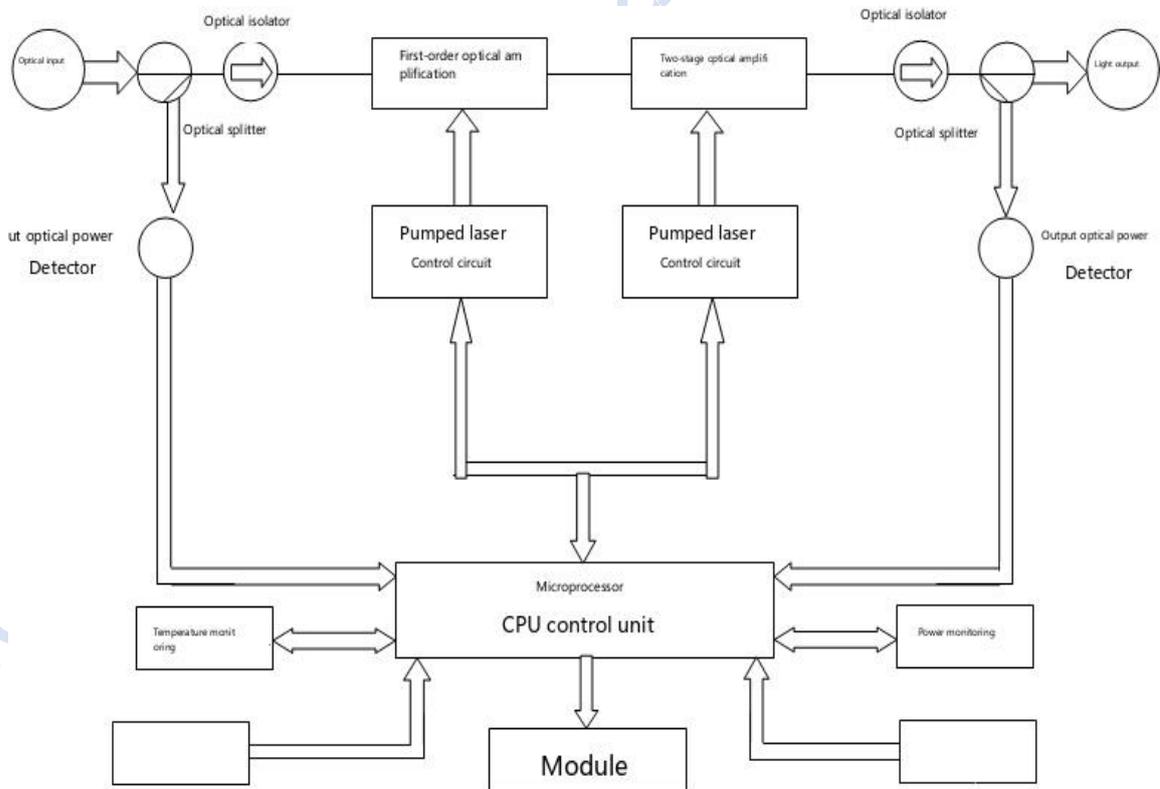
**Structure Chart (front panel)**



Structure Chart (back panel)



 How it works



**Ordering information HC - EDFA-5155H - A - B - C - D**

A	B	C	D
Number of output channels	Power supply mode	Optical interface	With or without WDM
8	A: 220V linear power supply B: 60V linear power supply	FA: FC/APC SA: SC/APC LA: LC/APC	1. With WDM 2. Without WDM
16	C: 220V switching power supply D: 60V switching power supply		
32	E: 110V switching power supply F: 110V linear power supply		
64	G: DC48V switching power supply		

**Remark**

Number of output channels	Optical power (dBm)
8	22
16	18.5
32	15
64	11.5