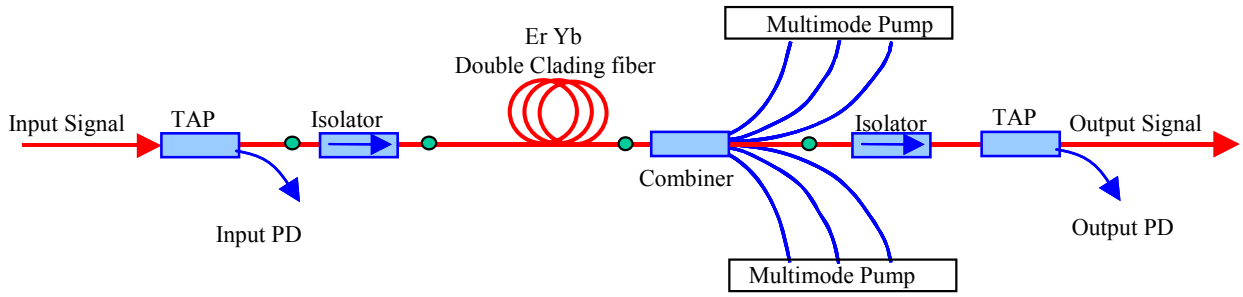
GWA3530 Series 1550nm Fiber Amplifier

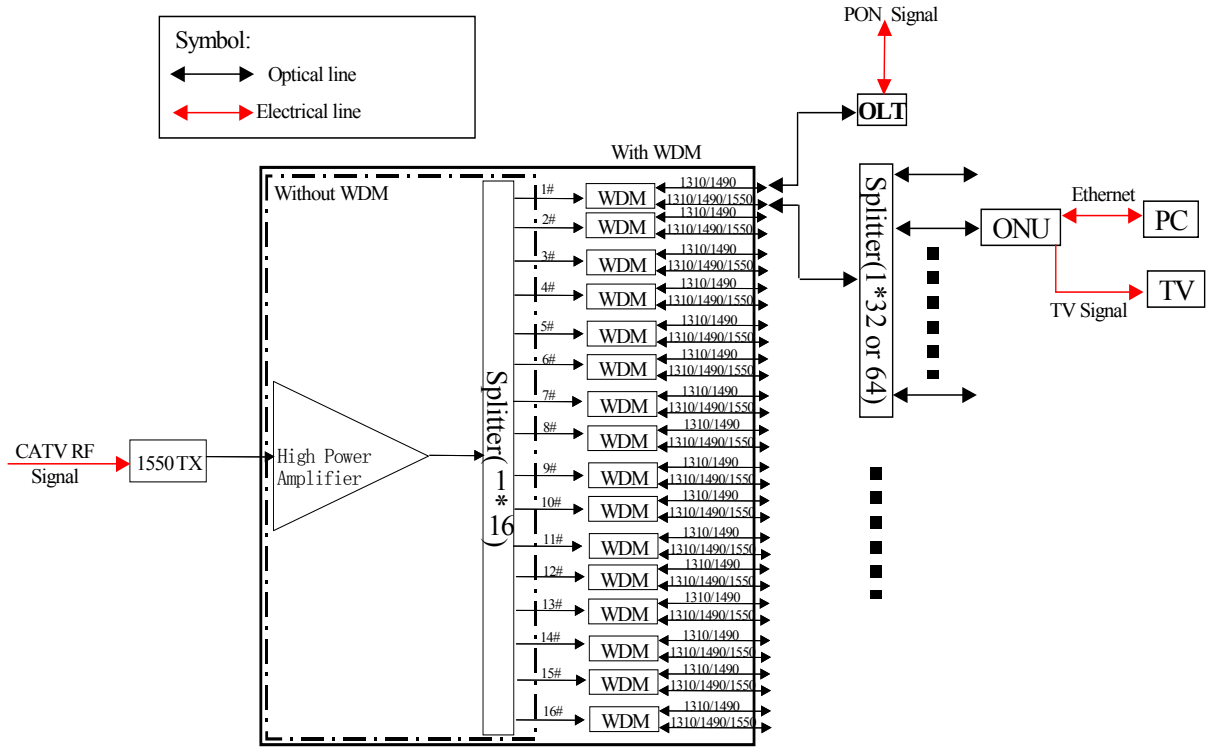
With up to 35dBm 1550nm output, GWA3530 series Er-Yb Doped Fiber Amplifiers are important 1550nm relay transmission equipments for High performance supertrunking links, High power distribution networks, Fiber Deep architectures and FTTx networks. GWA3530 Fiber Amplifier is designed to meet the most demanding noise performance requirements of CATV and FTTx applications. GWA3530 fiber amplifier provides optical isolation on the input and output of the gain block for stable, low noise operation. The input and output optical signal power levels are detected for monitoring and control. The input optical signal is amplified with active gain control for a constant output power level, or with active output power control for constant gain mode. GWA3530 series optical amplifiers also provide monitoring functions and associated alarms for all vital characteristics. The optical output of the GWA3530 series optical amplifiers can be split into up to 20 ports by an optional internal splitter.

Features

- High adjustable output power: maximum 35dBm
- Fiber output supporting multi-ports: 20dBm×N or 17dBm×N
- Low NF: Typical <5.5dB @+5dBm input
- Extremely low CSO distortion: < -70dBc
- Dual CPU dealing with amplifier local controller and remote communication
- High stability and reliability: MTTF ≥150000 hours
- Dual Hot-swappable Power supplies
- Ethernet, RS485 and RS232 network interfaces, SNMP Complied
- Intelligentized temperature control system: Employ special temperature control chip, radiating and power consumption can be reduced 30%
- Built-in 1310nm,1490nm,1550nm WDM(Optional)
- RoHS Complied
- Bellcore GR-1312-CORE Complied

Block and Application Diagram





EPON System Diagram

Specifications

Optical Parameter

Parameter	Symbol	Min	Typ	Max	Unit
Wavelength	λc	1540	1550	1565	nm
Saturated Output Power	Po	30	33	35	dBm
Input Power	Pi	-3		+10	dBm
Gain	G			30	dB
Noise Figure*	NF			6	dB

Output Power Stability	ΔPo		±0.05	±0.2	dB
Input Isolator	ISOi	30			dB
Output Isolator	ISOo	30			dB
Input Pump Leakage	PumpLin			-35	dB
Output Pump Leakage	PumpLout			-45	dB
Return Loss	RL			-45	dB
Polarization Dependent Gain	PDG			0.3	dB
Polarization Mode Dispersion	PMD			0.5	ps

* Tested at +5dBm optical input

Power Supply

Power Supply: AC: 90V~265V (50/60 Hz) or -48V DC

Power Consumption: ≤50W

Environment

Parameter	Symbol	Min	Typ	Max	Unit
Operating Temperature	Tw	-5		60	℃
Storage Temperature	Ts	-40		80	℃
Humidity		10		85	%

Physical Parameters

Weight: ≤20Kg

Dimensions (mm): 19” × 14.76” × 3.44” (19” 2RU)

Ordering Information

GWA3530-AB-C-D-E-F High Power Fiber Optical Amplifier in 19” 2RU

AB (Output Power): 30_30dBm, 33_33dBm, 35_35dBm

C (Output Ports): 01_1 port, 02_2 ports, 04_4 ports, 08_8 ports, 16_16 ports, 20_20 ports

D (Connector): FA_FC/APC SA_SC/APC

E (Power Supply): AC_90~265V AC, DC_-48V DC power supply

F (1310nm/1490nm/1550nm WDM at each fiber output port): Default_None, W_WDM