

# **ZISA EDFA1200**

#### 8 PON Port GPON+CATV EDFA COMBINER

keyword: WDM EDFA, CATV Fiber Amplifier



## Descrpition

EDFA1200-8 series EDFA combiner is a newest GPON/EPON+CATV FTTH/FTTP triple into one of optical transmitter system equipment, realized combine function of the amplification of optical signal OLT and CATV 1550nm. The optical input number: 1 port of CATV + 8ports PON input ports, 8ports outputs of 1550nm/1490nm/1310nm combine output, the combined optical output power rate: 35~40dBm. plug-in power supply, achieved the function of OLT and CATV 1550nm optical single combined and amplify, having high cost performance value.

#### **Features**

Apply to FTTH GPON/EPON network, combine 1310/1490/1550nm into 1 fiber.
8 uplink optical ports used in OLT, 8 ports of PON and 1550nm CATV EDFA Combiner out ,Each output port for optical amplifier has built-in well-performed WDM, and 1550nm CATV's out-put optical port multiplexes 1310/1490nm data stream and not lose.

Double cooling system to protect the pump laser.

| RJ45 Port for Plug-in SNMP system can remote management at any time.



Adopting JDSU, Bookham and Fitel laser.

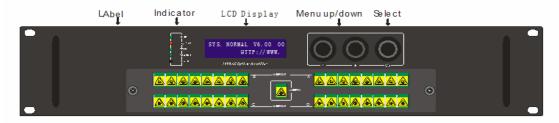
| LCD displays the parameters, functions and trouble alarm.

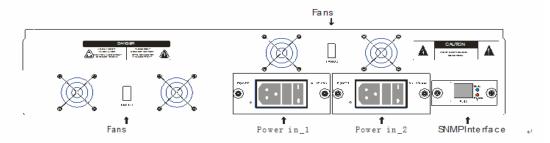
| Switch power supply can work in the range of 90V  $\sim$  265V AC or -48V DC .

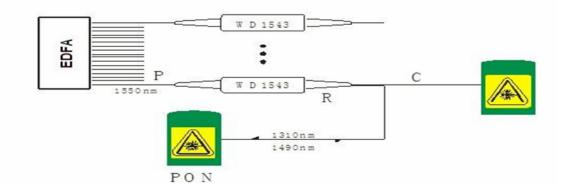
PON port. Output power 0-3dBm adjustable.

### **Product Struction**









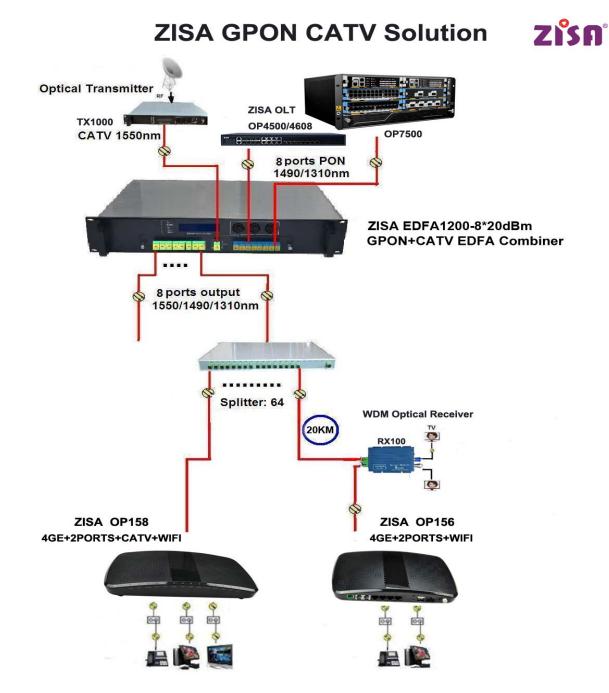
# **Product Specifications**

Num1310/1490CATV pass wavelength lossdB0.81550nmCATV ass wavelength lossdB0.81310/1490nmCATV & OLT isolationdB40Number of uplink optical ports (for OLT) pcs8EDFA1200,2UCATV input powerdBm5~+10Total output powerdBm20EDFA1200,2UNumber of output portspcs8EDFA1200,2UEach port output powerdBm6-22Difference of each output powerdB0.5~+0.5Output power adjustable rangedBm3~0Noise figure (Pin=0dBm)dB4.5~5.0Polarization dependence lossdB0.3Polarization mode dispersionmn3.3Pump power leakagedB55SNMP network management interfaceRJ4520VACPower supplyV§0~265220VACPower consumeW50~150Work temp.C-550Relative humidity%5~95	Items		Parameter	Remark
CATV pass wavelength lossdB0.81550nmOLT pass wavelength lossdB0.81310/1490nmCATV & OLT isolationdB4040Number of uplink optical ports (for OLT)pcs8EDFA1200,2UCATV input powerdBm5~+105Total output powerdBm20EDFA1200,1UNumber of output portspcs8EDFA1200,2UEach port output powerdB-225Difference of each output powerdB-225Output power adjustable rangedBm-3~05Noise figure (Pin=0dBm)dB4.5~5.05Polarization dependence lossdB0.31Polarization mode dispersionmm-3.01Polarization mode dispersionmm-3.01Pump power leakagedBm-301Echo lossdB551SNMP network management interfaceRJ4520VACPower supplyV50~150220VACPower consumeW50~15048VDCPower consumeW50~1501Work temp.C0-505Storage temp.C40~80Relative humidity%5~95	CATV Operation wavelength	nm	1530~1565	CATV
ALT pass wavelength lossdB0.81310/1490nmCATV & OLT isolationdB4040Number of uplink optical ports (for OLT)pcs8EDFA1200,2UCATV input powerdBm20EDFA1200,1UTotal output powerdBm20EDFA1200,2UNumber of output portspcs8EDFA1200,2UEach port output powerdBm6-22Difference of each output powerdB0.5~+0.5Output power adjustable rangedBm3-0Noise figure (Pin=0dBm)dB4.5~5.0Polarization dependence lossdB0.4Polarization mode dispersionmn30Pump power leakagedBm30Pump power leakagedBm30Cotpical connector(IN/OUT)ILC/APC ,SC/APCPower supplyV50~150Power consumeW50~150Work temp.C-50Relative humidity%5~95	OLT pass wavelength	nm	1310/1490	
CATV & OLT isolationdB40Number of uplink optical ports (for OLT)pcs8EDFA1200,2UCATV input powerdBm5~+10EDFA1200,1UTotal output powerdBm20EDFA1200,2UNumber of output portspcs8EDFA1200,2UEach port output powerdBm6~221Difference of each output powerdB-0.5~+0.51Output power adjustable rangedBm-3~01Noise figure (Pin=0dBm)dB4.5~5.01Polarization dependence lossdB0.31Polarization dependence gaindB0.41Polarization mode dispersionps/n m0.31Pump power leakagedB551Etoh lossdB551SNMP network management interfaceMK145Power supplyV $\frac{90~265}{30~72}$ 220VACPower consumeW50~1501Work temp.°95~1501Relative humidity%5~951	CATV pass wavelength loss	dB	0.8	1550nm
Number of uplink optical ports (for OLT)pcs8EDFA1200,2UCATV input powerdBm5~+10EDFA1200,1UTotal output powerdBm20EDFA1200,2UNumber of output portspcs8EDFA1200,2UEach port output powerdBm6-22Image: Comparison of the compar	OLT pass wavelength loss	dB	0.8	1310/1490nm
CATV input powerdBm-5~+10Total output powerdBm20EDFA1200,1UNumber of output portspcs8EDFA1200,2UEach port output powerdBm6~22-Difference of each output powerdB-0.5~+0.5-Output power adjustable rangedBm-3~0-Noise figure (Pin=0dBm)dB4.5~5.0-Polarization dependence lossdB0.3-Polarization dependence gaindB0.4-Polarization mode dispersionm30-Pump power leakagedBm-30-Echo lossdB55-SNMP network management interfaceRJ45-Power supplyV90~265220VACPower consumeW50~150-Work temp.°C-<50	CATV & OLT isolation	dB	40	
Total output powerdBm20EDFA1200,1UNumber of output portspcs8EDFA1200,2UEach port output powerdBm6~22Difference of each output powerdB0.5~+0.5Output power adjustable rangedBm-3~0Noise figure (Pin=0dBm)dB4.5~5.0Polarization dependence lossdB0.3Polarization dependence gaindB0.4Polarization mode dispersionmn0.3Pump power leakagedBm-30Echo lossdB55SNMP network management interfaceRJ45Optical connector(IN/OUT)LC/APC ,SC/APCPower supplyV90~265220VACPower consumeW50~150Work temp.'C0~50Storage temp.'C40~80Relative humidity%5~95	Number of uplink optical ports (for OLT)	pcs	8	EDFA1200,2U
Number of output portspcs8EDFA1200,2UEach port output powerdBm6~22Difference of each output powerdB-0.5~+0.5Output power adjustable rangedBm-3~0Noise figure (Pin=0dBm)dB4.5~5.0Polarization dependence lossdB0.3Polarization dependence gaindB0.4Polarization mode dispersionm3.0Pump power leakagedBm-30Echo lossdB55SNMP network management interfaceMRJ45Power supplyV90~265220VACPower consumeW50~150Work temp.°C-40~80Relative humidity%5~95	CATV input power	dBm	-5~+10	
Each port output powerdBm $6~22$ Difference of each output powerdB $-0.5 \sim +0.5$ Output power adjustable rangedBm $-3-0$ Noise figure (Pin=0dBm)dB $4.5 \sim 5.0$ Polarization dependence lossdB $0.3$ Polarization dependence gaindB $0.4$ Polarization mode dispersion $ps/n$ m $0.3$ Input/output isolationdB $30$ Pump power leakagedBm $-30$ Echo lossdB $55$ SNMP network management interfaceRJ45Optical connector(IN/OUT)LC/APC ,SC/APCPower supply $V$ $90~265$ Power consumeW $50~150$ Work temp.°C $-40~80$ Relative humidity% $5~95$	Total output power	dBm	20	EDFA1200,1U
Difference of each output powerdB-0.5~+0.5Output power adjustable rangedBm-3~0Noise figure (Pin=0dBm)dB4.5~5.0Polarization dependence lossdB0.3Polarization dependence gaindB0.4Polarization mode dispersionps/n n0.3Input/output isolationdB30Pump power leakagedBm-30Echo lossdB55SNMP network management interfaceRJ45Optical connector(IN/OUT)LC/APC ,SC/APCPower supply $$ Power consumeWV50~150Work temp.°CAtoma°CRelative humidity%Solarage temp.°CNote humidity%	Number of output ports	pcs	8	EDFA1200,2U
Output power adjustable rangedBm-3~0Noise figure (Pin=0dBm)dB4.5~5.0Polarization dependence lossdB0.3Polarization dependence gaindB0.4Polarization mode dispersionps/n m0.3Input/output isolationdB30Pump power leakagedBm-30Echo lossdB55SNMP network management interfaceRJ45Optical connector(IN/OUT)LC/APC ,SC/APCPower supplyV90~265Power consumeW50~150Work temp.°C-40~80Relative humidity%5~95	Each port output power	dBm	6~22	
Noise figure (Pin=0dBm)dB4.5~5.0Polarization dependence lossdB0.3Polarization dependence gaindB0.4Polarization mode dispersionps/n m0.3Input/output isolationdB30Pump power leakagedB-30Echo lossdB55SNMP network management interfaceRJ45Optical connector(IN/OUT)LC/APC ,SC/APCPower supply $V$ $90~265$ Power consumeW $50~150$ Work temp.°C $-40~80$ Storage temp.°C $40~80$	Difference of each output power	dB	-0.5~+0.5	
Polarization dependence lossdB0.3Polarization dependence gaindB0.4Polarization mode dispersionps/n m0.3Input/output isolationdB30Pump power leakagedBm-30Echo lossdB55SNMP network management interfaceRJ45Optical connector(IN/OUT)LC/APC ,SC/APCPower supply $$ $\frac{90~265}{30~72}$ $220VAC$ Power consumeW $50~150$ Work temp.°C $-50$ Storage temp.°C $-40~80$ Relative humidity% $5~95$	Output power adjustable range	dBm	-3~0	
Polarization dependence gaindB0.4Image: constraint of the second	Noise figure (Pin=0dBm)	dB	4.5~5.0	
Polarization mode dispersionps/n m0.3Input/output isolationdB30Pump power leakagedBm-30Echo lossdB55SNMP network management interfaceRJ45Optical connector(IN/OUT)ICPower supplyVPower consumeWStorage temp.CAdditionCStorage temp.CStorage temp.C </td <td>Polarization dependence loss</td> <td>dB</td> <td>0.3</td> <td></td>	Polarization dependence loss	dB	0.3	
Polarization mode dispersionImage: mail of marking ma	Polarization dependence gain	dB	0.4	
Pump power leakagedBm-30Echo lossdB55SNMP network management interfaceIMRJ45ImmediateOptical connector(IN/OUT)IMLC/APC ,SC/APCImmediatePower supplyM90~265220VACPower consumeV50~150ImmediateWork temp.C0~50ImmediateStorage temp.C40~80ImmediateRelative humidity%5~95Immediate	Polarization mode dispersion		0.3	
Echo lossdB55SNMP network management interfaceRJ45Optical connector(IN/OUT)ICLC/APC ,SC/APCPower supply $V$ $90~265$ $220VAC$ Power consumeW $50~150$ Work temp.°C $0~50$ Storage temp.°C $40~80$ Relative humidity% $5~95$	Input/output isolation	dB	30	
SNMP network management interfaceRJ45Optical connector(IN/OUT)LC/APC ,SC/APCPower supply $V$ $90~265$ $220VAC$ Power consume $W$ $50~72$ $48VDC$ Power consume $W$ $50~150$ $C$ Work temp. $C$ $0~50$ $C$ Storage temp. $C$ $40~80$ $C$ Relative humidity $W$ $5~95$ $C$	Pump power leakage	dBm	-30	
Optical connector(IN/OUT)LC/APC ,SC/APCPower supply $V$ $90~265$ $220VAC$ Power consume $W$ $50~72$ $48VDC$ Power consume $W$ $50~150$ $U$ Work temp. $C$ $0~50$ $U$ Storage temp. $C$ $40~80$ $U$ Relative humidity $W$ $5~95$ $U$	Echo loss	dB	55	1
Power supply     V     90~265     220VAC       90~72     48VDC       Power consume     W     50~150       Work temp.     °C     0~50       Storage temp.     °C     -40~80       Relative humidity     %     5~95	SNMP network management interface		RJ45	
Power supplyV10~7248VDCPower consumeW50~150Work temp.°C0~50Storage temp.°C-40~80Relative humidity%5~95	Optical connector(IN/OUT)		LC/APC ,SC/APC	
30~7248VDCPower consumeW50~150Work temp.°C0~50Storage temp.°C-40~80Relative humidity%5~95	Power supply	V	90~265	220VAC
Work temp.°C0~50Storage temp.°C-40~80Relative humidity%5~95			30~72	48VDC
Storage temp.°C-40~80Relative humidity%5~95	Power consume	W	50~150	
Relative humidity % 5~95	Work temp.	°C	0~50	
	Storage temp.	°C	-40~80	
Size (W) × (D) × (H) " 88 ×482.6×387 2U EDFA1200,2U	Relative humidity	%	5~95	
	Size (W) $\times$ (D) $\times$ (H)	"	88 ×482.6×387 2U	EDFA1200,2U

ZÎSA



## Application



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