# Ocom



## OTS 9175 1550nm EDFA with PON port



The standard rack-mounted OTS 9175 series 1550nm EDFAs are designed to meet the high performance of fiber networks in CATV or digital systems applications. The OTS 9175 series products has WDM devices integrated for combining IP signals of wavelengths 1310nm & 1490nm with 1550nm CATV signal in the same fiber, and providing 15~24dBm output power with a noise figure of less than 6dB from 1545 to 1565nm. The OTS 9175 series products have an embedded advanced MCU circuit embedded to monitor and control full status parameters and alarms. All parameters can be accessed through front panel LCD or RS232 interface located on the rear panel of the transmitter. The OTS 9175 series products also employ a manual key switch for safety consideration during operation.

#### **Applications**

□ CATV □ FTTX □ Data

#### **Features**

- Output ports: 4-8 optional
- Built-in optical switch, backup optical source
- Low noise figure: less than 6dB at 0dBm input
- Optical output power: total output up to 2W
- Double power supply high performance hot-swap : Mix 220VAC and
   -48VDC
- Network management Agent hot-swap support Telnet and SNMP
- Perfect network interface: Ethernet-RJ45 and RS232
- Intelligent temperature control system: power consumption and hot radiation reduce 30% than common products
- Compatible with Bellcore GR-1312-CORE





## **Specifications**

Parameter		Specification	Remark			
Operating bandwidth		1545 - 1565				
Optical input power range		-5 - +10				
ime	ms	≤ 10				
	dB	≤1.5				
ength	nm	1545 ~ 1565				
Maximum optical output power		32				
lity	dBm	±0.5				
	dB	≤ 6.0	Optical input power 0dBm, λ=1550nm			
e						
ما المعمد من		1260 ~ 1360	Pass through			
engtn	nm	1480 ~ 1500	Pass through			
ss	dB	<1.0				
	dB	>15				
Input Output	-ID	≥ 45				
	ав	≥ 45				
Optical Connector Type		SC/APC				
	dB	≥ 50	Test condition accordin			
C/CTB		≥ 63	to			
	dB	2 03	GT/T 184-2002.			
nce						
Power supply voltage		A: AC100V ~ 250V (50/60 Hz) B: DC48V				
Operating Temperature Range		-10 - +42				
Maximum operating relative humidity		Max 95% No Condensation				
Storage Temperature Range		-30 - +70				
ative	%	Max 95% No Condensation				
	mm	483(L)× 475(W)×44(H)	1U			
	range ime ength utput ility ength ss ut fype ance age ture	range dBm time ms dB ength nm utput dBm dB eength nm dBm dB eength nm dB dB eength nm dB dB eength nm dB dB eength dB dB dB eength dB dB eength dB dB eength	dth       nm       1545 - 1565         range       dBm       -5 - +10         time       ms       ≤ 10         dB       ≤1.5         ength       nm       1545 ~ 1565         ather the string of			





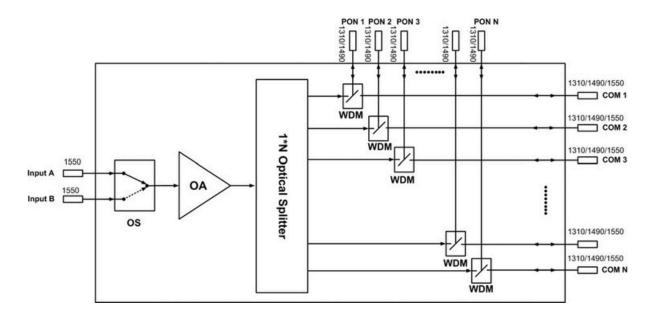
### **Absolute Maximum Ratings**

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only. Functional operation of the device is not implied at these conditions. Exposure to absolute maximum ratings for extended periods can adversely affect device reliability.

Parameter	Symbol	Min	Тур	Max	Unit		
Operating Temperature	Tw	-5		60	°C		
Storage Temperature	Ts	-40		80	°C		
Humidity		10		85	%		

(3): No condensation

### **Block Diagram**







**OTS 9175** 

## **Ordering Information**

OTS 9175	XX	 XX	-	X	-	XXX	-	X
	Output Port : 04  : Max Power 24 dBm 08 : Max Power 20 dBm	Output Power:  15 = 15 dBm  16 = 16 dBm  17 = 17 dBm  18 = 18 dBm  19 = 19 dBm  20 = 20 dBm  21 = 21 dBm  22 = 22 dBm  23 = 23 dBm  24 = 24 dBm	-	Power Supply:  1:110/220 VAC 2:Dual 100/220 VAC 3:-48 VDC 4:Dual -48 VDC 5:110/220 VAC and -48 VDC		Connector: SCA  = SC/APC  FCA = FC/APC  LCA = LC/APC	-	SNMP:0: w/o 1:SNMP