

MST3282E-1577

1550NM FTTH Optical Receiver

1. Description

1550nm FTTH Optical Receiver MST3282E-1577 receives only 1550nm signal, which can be used in triple-play applications, it has high performance, lower receiver optical power and lower cost for CATV operators providing high quality and excellent FTTH network solution. Product schematic diagram as below:

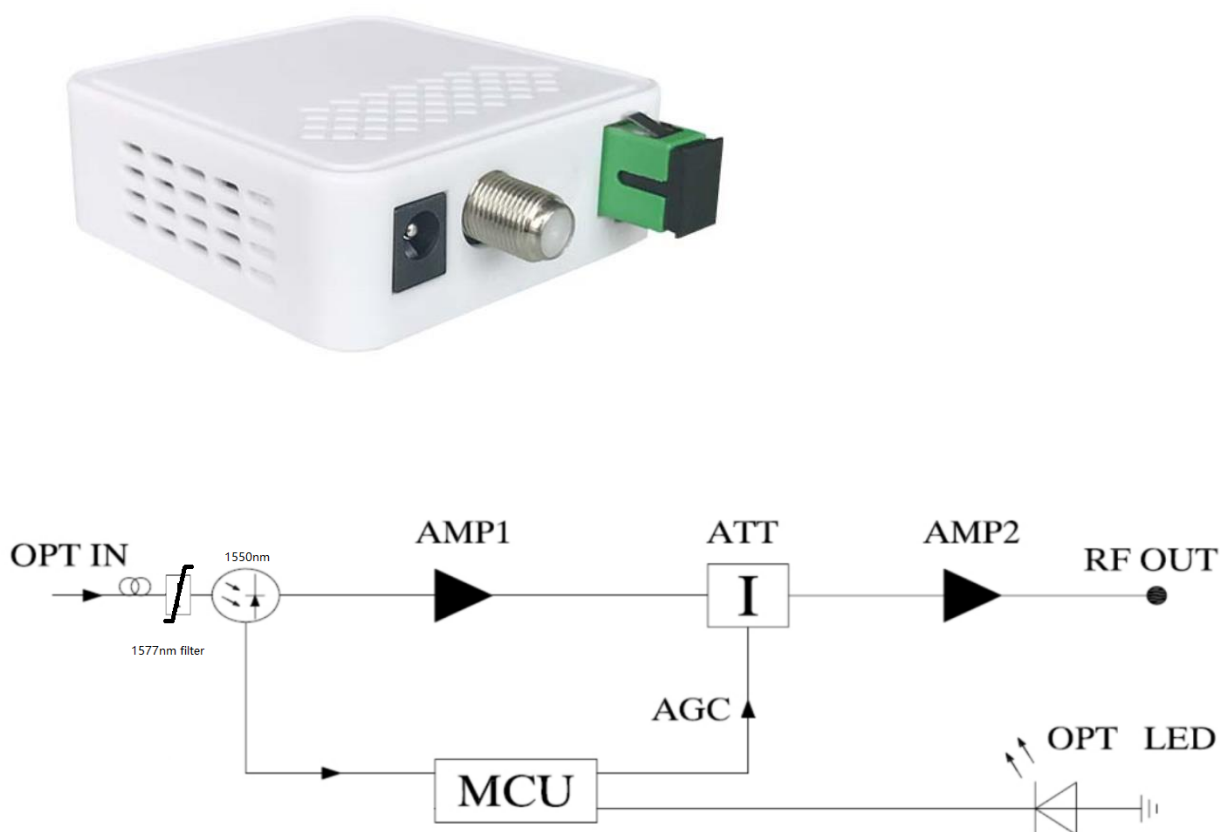


Fig.1 Block Diagram

2. Features

- 1 GHz operating bandwidth
- Lower input optical range: 0~-18dBm
- Output level up to 78±2dBuV (-15 to 0dBm input)
- AGC Function(range:0~-15)
- Low power consumption<1.0W

3. Specification

No	Description	value	Unit	Conditions / Notes
1	Wavelength	1550±20	nm	With 1577nm filter
2	Optical Power Input Range	-18~0	dBm	Recommend -15 to 0
3	Optical Input Return Loss	≥45	dB	
4	Bandwidth	47~1003	MHz	
5	Flatness	±1.0	dB	47~1000MHz, @ 25 °C
6	Slope	0~1.0	dB	47~1000MHz, @ 25 °C
7	Temperature Stability	±1.0	dB	In the operating temperature range (-25 ~ +65 °C)
8	Output Level	78±2	dBuV	-15 to 0dBm input optical power, per channel modulation 4.0%, in the 860MHz point test, @ 25 °C
9	Impedance	75	Ohm	
10	Return Loss (47~1000MHz)	≥14	dB	@25 °C
11	MER	≥35	dB	-10~0dBm input optical power
12	Power	< 0.8	W	
13	Operating Temperature	-25~65	°C	
14	Storage Temperature	-40~70	°C	
15	Storage Humidity	≤95	%	Non- condensation
16	Optical Connector Type	SC/APC		FC/ST Optional
17	Power interface	DC5V/0.5A		External adapter
18	RF Output Connector	F connector		Metric or imperial, 2 out optional

19	Dimension	75X 66X 28	mm	
20	Weight	Net :0.10	kg	Gross weight:0.116

4. AGC Function

Description	Parameter	unit	Conditions / Notes
AGC			
AGC arrange	-15~-0	dBm	
Indicator			
OPT	Three color light	N/A	Optical power <-18dBm , red indicator Optical power -18~2dBm, green indicator Optical power >2dBm , orange indicator

5. Packing List

- One Optical Receiver
- One Power Supply Adapter
- One User Manual