

• PTR3282H FTTH Optical Receiver

PTR3282H FTTH Optical Receiver 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:

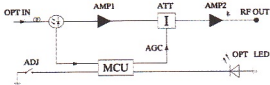
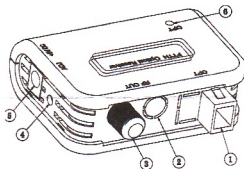


Fig.1 Block Diagram

1 Interface



| No | Interface | Description |
|----|-----------------|--|
| ① | Input Interface | Optical SC/FC/APC Connectors optional |
| ② | RF OUT | RF OUT1 F connector |
| ③ | | RF OUT2 optional |
| ④ | ADJ | AGC Button , press ADJ to get different AGC arrange . The four different AGC range will be change circularly, and the OPT indicator will shine |
| ⑤ | +5VDC | Power adaptor port |
| ⑥ | OPT | LED indicator. the different color shows different work status, it will shine when press ADJ button ,the shine time will show the AGC arrange when you turn on ,see detail as AGC function No3 |

2. Specification

| No | Description | value | Unit | Conditions / Notes |
|----|-------------|-----------|------|--------------------|
| 1 | Wavelength | 1100~1600 | nm | |

| | | | | |
|----|---------------------------|-------------|------|--|
| 2 | Optical Power Input Range | -20~-1 | dBm | Recommend -18 to -1 |
| 3 | Optical Input Return Loss | ≥45 | dB | |
| 4 | Bandwidth | 47~1003 | MHz | |
| 5 | Flatness | ±0.75 | dB | 47~1000MHz. At 25 ℃ |
| 6 | Slope | 0~1.0 | dB | 47~1000MHz. At 25 ℃ |
| 7 | Temperature Stability | ±1.0 | dB | In the operating tem range (-25 ~ +65 ℃) |
| 8 | Output Level | 70±2 | dBuV | -15dBm input optical power, per channel modulation 4.0%, in the 860MHz point test, at 25 ℃ |
| 9 | Impedance | 75 | Ohm | |
| 10 | Return Loss (47~1000MHz) | ≥14 | dB | At 25 ℃ |
| 11 | MER | ≥34 | dB | -15~-4dBm input optical power |
| 12 | Power | < 0.8 | W | |
| 13 | Operating Temperature | -25~65 | ℃ | |
| 14 | Storage Temperature | -40~70 | ℃ | |
| 15 | Storage Humidity | ≤95 | % | Non-condensation |
| 16 | Optical Connector Type | SC/APC | | |
| 17 | Power interface | DC5V/0.5A | | External adapter |
| 18 | RF Output Connector | F connector | | 2 out optional |
| 20 | Dimension | 74×64×27 | mm | |
| 21 | Weight | 0.15 | kg | |

3 AGC Function

| Description | Parameter | unit | Noted |
|------------------|-------------------|------|--|
| AGC arrange | -10~+0 | dBm | According to OPT shine time to get AGC range, the OPT shine will be circle when you press the ADJ button, |
| | -12~-2 | | |
| | -15~-5 | | |
| | -16~-6 | | |
| Indicator | | | |
| OPT | Three color light | N/A | Optical power <-20dBm, red indicator; Optical power -20~-2dBm, green indicator Optical power >2dBm, orange indicator; Shine 1 time AGC-10~+0dBm Shine 2 times AGC-12~-2dBm Shine 3times AGC-15~-5dBm Shine4 times AGC-16~-6dBm |