

# FTTH PON & CATV WDM OPTICAL RECEIVER

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### Variants

FWR-8610RW

### Details

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### 1. Introduction

Fiber to the home ( FTTH ) broadband access is the ultimate development goal, the FWR-8610RW optical receiver is the target terminal products for this goal. FWR-8610W device adopts the technology of high isolation WDM in order to separate CATV and ONU signal. Furthermore, it also adopts AGC control technique, which could achieve the requirement of  $-9\text{dBm}$  CATV receiving for FTTH. The optical power receiving monitoring indicator LED (  $-15\text{dBm}$  ) is provided on the pane and it supports RF outputs constantly, the convenience of customers use, which is the ideal receiver equipment for FTTH

### Technical Index

| Item                   |                         | Unit   | Performance Parameter                |
|------------------------|-------------------------|--------|--------------------------------------|
| Optical characteristic | input wavelength        | (nm)   | 1310,1490,1550                       |
|                        | Output wavelength       | (nm)   | 1310,1490                            |
|                        | operation wavelength    | (nm)   | 1540~1560                            |
|                        | channel separation      | (dB)   | $\geq 40$ (1310/1490nm and 1550nm )  |
|                        | response                | (A/W)  | $\geq 0.9$                           |
|                        | receive power range     | (dB)   | +3~-18                               |
|                        | reflection loss         | (dB)   | $\geq 55$                            |
|                        | fiber linker            | /      | SC/UPC and SC/APC                    |
| RF characteristic      | Bandwidth/flatness      | MHz/dB | 47-1000/ $\pm 1$                     |
|                        | output level            | dBuv   | 82/76/70 $\pm 1$ /(-2~-9/-12/-15dBm) |
|                        | output level adjustment | dB     | 0~-18                                |

|                     |                             |     |                                   |
|---------------------|-----------------------------|-----|-----------------------------------|
|                     | reflection loss             | dB  | ?14(75? characteristic impedance) |
|                     | RF output interface         | /   | Metric (one-way output)           |
|                     | CNR/MER                     | dB  | ?44/34(PAL-D 60CH,OMI3.8%,-9dBm)  |
|                     | CTB/CSO/HUM                 | dB  | ?65/?60/?60(-1dBm receive)        |
| Another requirement | power supply/consumption    | V/W | External AC155~255V?DC12,/5       |
|                     | working/storage temperature | °C  | -35~50/-40~75(humidity 5~90%)     |
|                     | size                        | mm  | 130×60×22                         |

Packing: 1 pc per inner box, 80 Pcs Per carton

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