



## Mini Optical Receiver NEXTRA NX-8682A / NX-8682M

### 1. Product Summary

This optical receiver is a featured product which is specially designed for FTTH——Fiber to the Home network structure. With small housing, compact and reasonable internal circuit structure and excellent performance indicators, it is the first choice for residential area and home fiber optic network.

**NX-8682A** means the factory settings is AGC state (default);

**NX-8682M** means the factory settings is MGC state.

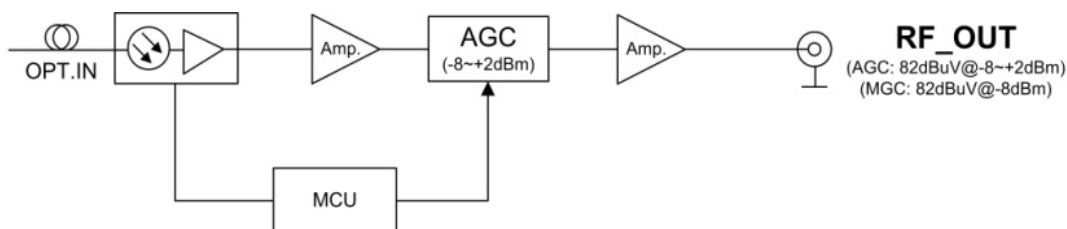
### 2. Performance Characteristics

- Adopt GaAs amplifier device; use MCU control; AGC or MGC is optional.
- 5V DC voltage power supply, low power consumption.

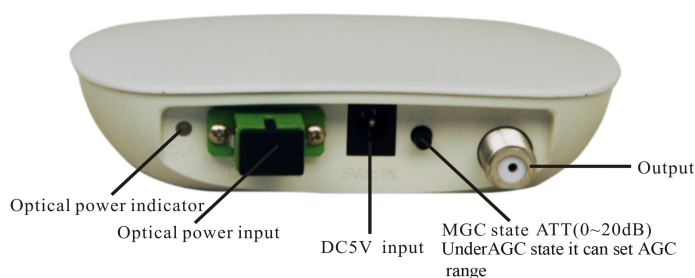
### 3. Technique Parameter

Item	Unit	Technical Parameter	
Optical Parameters			
Optical Receiving Power	dBm	-15 ~ +2	
AGC Range	dBm	-8/-9/-10/-11/-12 ~ +2	Factory default -8~+2 or specified by the user. Operating instructions: AGC state, long press 5 sec to green led flash, when entering into AGC range set mode, press the button one time, AGC range turns from (-8~ +2)to (-12~ +2), press the button again, it turns to (-11 ~ +2), followed by recycling. When select the AGC range without any action, after about 24 sec, the indicator will recover to original state, set successfully.
Optical Return Loss	dB	> 45	
Optical Receiving Wavelength	nm	1100 ~ 1600	
Optical Connector Type		SC/APC	
Fiber Type		Single Mode	
Link Performance			
C/N	dB	≥ 51	@Pin= -1dBm, Pout=82dBμV, 84CH PAL-D, OMI=3.8%
C/CTB	dB	≥ 65	
C/CSO	dB	≥ 62	
RF Parameters			
Frequency Range	MHz	45~1003	
Flatness in Band	dB	±0.75	
Output Level	dBμV	≥ 82 (AGC: @-8~+2dBm) / (MGC: @-8dBm)	
Output ATT range	dB	0~20 (Valid in MGC state)	
Output Return Loss	dB	≥ 16	
Output Impedance	Ω	75	
Consumption	W	< 1.2	
Operating Temperature	°C	-20—+55	
Dimension	mm	104*85*25	

### 4. Block diagram



### 5. Structure



Optical input power indicator	
Indicator color	Description
Green	Normal
Orange	Low optical input power
Red	High optical input power
Green flashing	Can set AGC range

**Warning:** This product has to use our configured DC5V power adapter. We are not responsible for damage caused by using other power adapter.