

STOR-200AL Return Path Optical Receiver



Use:

- The STOR-200AL return path optical receiver converts return path optical signal to a high quality RF signal.
- A complete optical transmitter-receiver system consists of STOR-200AL optical receiver and STOR-750-RPTD optical station or STOS-2000 ONU.

Features:

- The return path optical receiver uses high responsivity photodiode.
- Optimum receiver match, low distortion, high responsivity.
- The first stage of RF amplifier is a low noise amplifier, it improves CNR when received optical power is low.
- The optical receiver uses 19" standard frame, high quality switching power supply.
- LCD optical power monitoring:
LCD is red when optical power $> +1\text{dBm}$
LCD is green when optical power $< -10\text{dBm}$
LCD is no light when $-10\text{dBm} < \text{optical power} < +1\text{dBm}$

Specifications:

1. Link specifications:

CNR	$> 51\text{dB}$
CSO	$< -60\text{dB}$
CTB	$< -65\text{dB}$

2. Optical input:

Fiber pigtail connector	FC/APC
Photodiode responsivity	$\geq 0.85\text{mA/mW}$
Return loss	$\geq 55\text{dB}$
Input optical power(recommend)	$-10\text{dBm} \sim +1\text{dBm}$
Wavelength range	1310 ~ 1550 nm

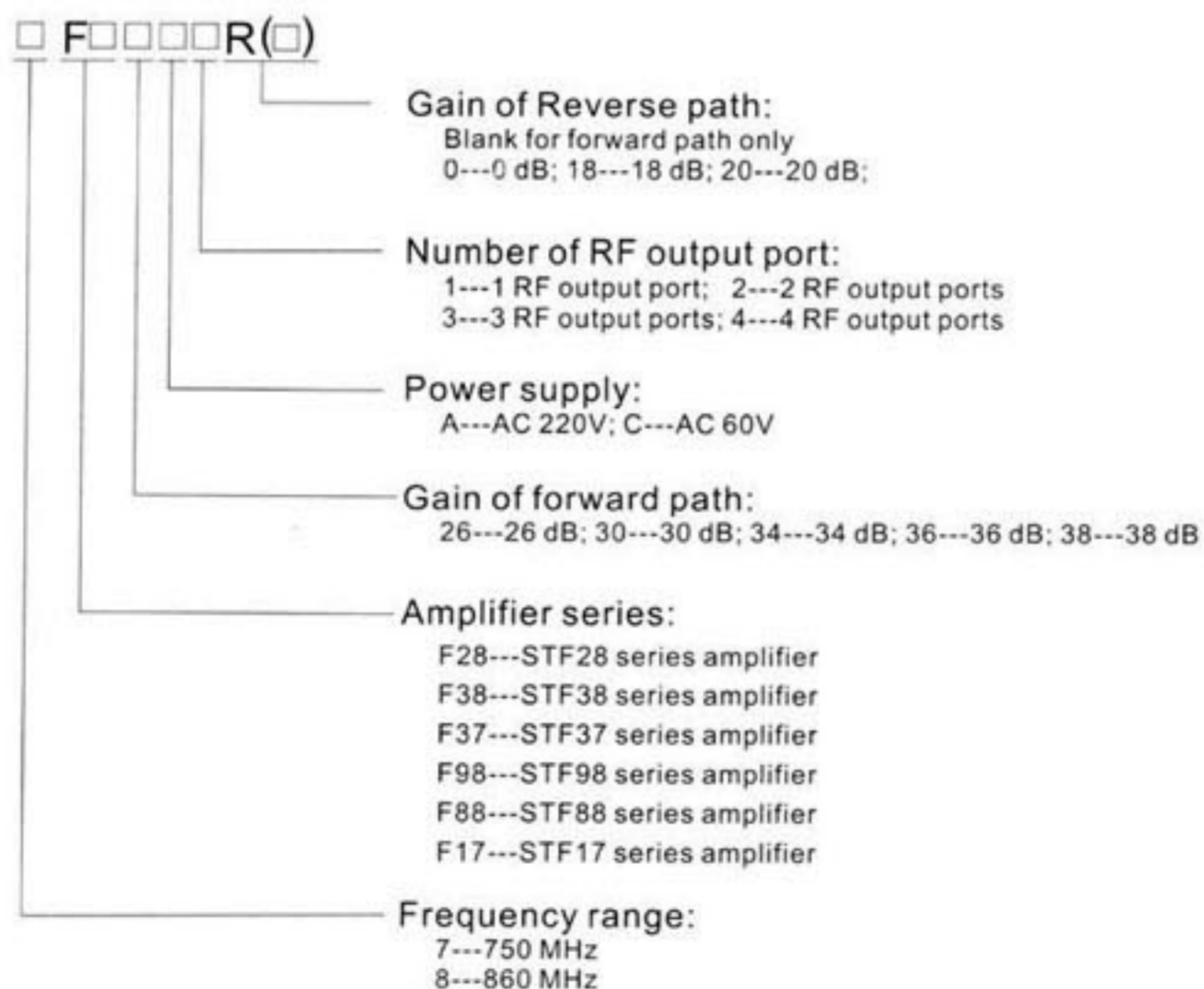
3. RF output:

Frequency range	(5 - 200)MHz
Flatness	$\pm 0.75\text{dB}$
Gain	24, 35dB
Return loss	$> 14\text{dB}$
Manual gain control	(0 - 10)dB

4. Others:

Power supply	AC220V
Power consumption	30VA
Operating temperature	$(-45 \sim +55)^\circ\text{C}$
Operating humidity	5-95%

Amplifier Model Explanation



e.g.:
8F2830A2R(20)---STF28 series amplifier, 860 MHz frequency range, forward path gain is 30 dB, power supply AC 220V, 2 RF output ports, Reverse path gain is 20 dB.