

STOR-750-RPTD Small Optical Station

Use:

The STOR-750-RPTD small optical station converts the optical signals from the transmitter to a high quality broadband RF signal and convert from return path input RF data or TV signals to optical signal to transmit to headend. It is suitable for fiber to fiber (FTF) and fiber to the last amplifier (FTLA)CATV systems.

Features:

Forward optical receiver

- ✦ Use high responsivity PIN photodiode.
- ✦ The first stage of forward path RF amplifier is a low noise amplifier, it improves CNR, when received optical power is low.
- ✦ LCD optical power monitoring:
LCD is red when optical power $\geq +1\text{dBm}$;
LCD is green when optical power $\leq -6\text{dBm}$;
LCD is no light when $-6\text{dBm} < \text{optical power} < +1\text{dBm}$;
- ✦ There are four forward RF output ports.

Reverse optical transmitter

- ✦ There is reverse RF signals independent input port.
- ✦ AM-RPTD reverse optical transmitter option.

Specifications:

1. Return path RF specifications:

Frequency range	(5~200)MHz
Gain	30dB
RF output level	100dB μV for data signal
Manual gain control	(0~10)dB adjustable, or 2dB step
Manual slope control	(0~10)dB adjustable, or 2dB step
output test port loss	20dB

2. Return path optical transmitter AM-RPTD:

Wavelength range	1310nm
Laser type	FP-LD
Optical output power	(0.5~2)mW optional
Fiber pigtail connector	FC/APC

※ This type optical transmitter is suitable for transmitting one channel TV signal and ten channels data signals;



3. Forward path optical input:

Fiber optical connector	FC/APC
Photodiode responsivity	$> 0.85\text{mA/mW}$
Return loss	$> 55\text{dB}$
Input optical power	-7dBm~+3dBm -6dBm~+1dBm(recommend)
Wavelength range	1310nm~1550nm

4. Forward path RF output:

Frequency range	(45~750)/(45~860)MHz
Flatness	$\pm 0.75\text{ dB}$
Output level	(98~106)dB μV
Return loss	$> 14\text{dB}$
Manual gain control	(0~15)dB adjustable, or 2dB step
Manual slope control	(0~10)dB adjustable, or 2dB step

5. Forward path link specifications:

CNR	$\geq 51\text{dB}$
CSO	$\leq -60\text{dB}$
CTB	$\leq -65\text{dB}$

6. Other:

Power supply	AC 220V or AC 60V
Power consumption	60VA
Operating temperature	(-45~+55)°C

Ordering information:

- ✦ Indoor and outdoor housing options;
- ✦ Select the power supply AC 220V or AC 60V;
- ✦ Select the duplex filter frequency range;
- ✦ Select the MGC/F type constant(step 2dB)or adjustable;
- ✦ Select the MSC/F type constant(step 2dB)or adjustable;
- ✦ Select the MGC/R(step 2dB);
- ✦ Select the reverse optical transmitter AM-RPTD;