

# HR2080A, HR2080B

## HFC 8 ways return path optical receiver

### PRODUCT DESCRIPTION

HR2080 series HFC 8 ways return path receiver can convert upstream optical signal to RF signal at the head-end and remote control center. 8 independent receivers integrated into a 1RU 19" casing to supply service for HFC network terminal. Receiver's low noise design, -22dBm receive sensitivity can provide service to farther place.

There are two versions of this receiver. HR2080A with LCD on the front panel, HR2080B without LCD. All receivers are temperature tolerance type can be installed in any network surroundings including out-door type. Both of these two types can adopt SNMP function which can control the front panel to realize optimization work at the head-end and remote installment.



### PRODUCT FEATURES

- ▶ 8 low noise optical receiver, up to -22dBm receive sensitivity
- ▶ 1200~1620nm wide wavelength
- ▶ SNMP network management function option
- ▶ RF output level can be adjusted by network
- ▶ Built-in 1+1 backup power, redundant A/B inputs (option)
- ▶ Good performance of resistance to temperature, allow -40~+65°C operating temperature
- ▶ Simple mode, 19" 1RU mount, contain 8 pcs of independent optical receiver
- ▶ Excellent P/P ratio

### MAIN APPLICATION

- ▶ HFC

## TECHNICAL INDEX

Performance				Index			Supplement
				Min.	Typ.	Max.	
Optical feature	Operating wavelength		(nm)	1260		1620	
	Responsivity	R13	(A/W)	0.85	0.95		1310nm
		R15		0.85	1.0		1550nm
		R16			0.85		1610nm
	Optical link budget loss		(dB)	17			
	Receiving power	Typical	(dBm)	-17		-7	
		Sensitivity			-23	-22	Pr
		overload		0	+1		Po
	Number of optical receiver		(pcs)		8		
	Return loss		(dB)	50			
Optical connector			SC/APC			LC/APC option	
RF feature	Operating bandwidth		(MHz)	5		200	
	RF output level		(dBmV)	30		60	
	RF gain adjustable		(dB)	-30		0	
	Flatness		(dB)	-0.75		+0.75	
	Return loss		(dB)	16			54~870MHz
	RF test point/monitor		(dB)	-20.5	-20	-19.5	
	Noise power ratio		(dB)	37			F-P, link loss >15dB
				41			DFB, link loss >15dB
General feature	Power supply	AC	(V)	90	220	265	
		DC		-30	-48	-72	
	Power consume		(W)			96	
	Operating temp.		(℃)	-40		+65	
	Relative humidity		(%)	5		95	
	Size (W)×(D)×(H)		(mm)	483×305×44			

