

HFC 8 ways return path optical receiver

- HR2080A, HR2080B Series

Technical Specification

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1.0 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.

2.0 Features and benefits

- 8 low noise optical receiver, up to -22dBm receive sensitivity.
- 1200~1620nm band 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

3.0 Main application

- HFC

4.0 TECHNICAL INDEX

Performance			Index			Supplement	
			Min.	Typ.	Max.		
Optic feature\	Operating wavelength (λ)		(nm)	1200		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	Settable=1dB
	Flatness		(dB)	-0.75		+0.75	
	Return loss		(dB)	16			
	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.		(°C)	-40		+65	
	Relative humidity		(%)	5		95	
Size		(")	19×12×1.75			(W)×(D)×(H)	

5.0 Order information

HR 2 0 8 0 - - S A

In-door CATV optical receiver	Bandwidth		Reception sensitivity		Number of optical receiver		Number of optical transmitter		Whether has LCD on the front panel		Network management		RF output port position		Optical port position		Connetor		Power supply	
	1	2	0	-22dBm	4	4 pcs	0	None	A	With LCD	N	No	F	Front panel	F	Front panel	SA	SC/APC	22	220VAC
	2	200MHz	1	-32dBm	7	7 pcs	1	1 pcs	B	Without LCD	W	With	B	Back panel	B	Back panel	FA	FC/APC	11	110VAC
	7	750MHz			8	8 pcs											LA	LC/APC	48	-48VDC
	8	870MHz																		
	9	1000MHz																		

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