

# SFR2040

## HFC 4 ways return path optical receiver



### Product description

SFR2040 series HFC four ways return path receiver can convert upstream optical signal to RF signal at the head-end and remote control center. Four 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. SFR2040A with LCD on the front panel, SFR2040B 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

- 4 low noise optical receiver, up to -22dBm receive sensitivity
- 1200~1620nm wider 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 4 pcs of independent optical receiver
- Excellent P/P ratio

### Main application

- HFC

### Model explanation

**SFR2040**[Whether has LCD on the front panel] – [Network management]**BB**  
– [Connector][Power supply]

Product type	SRR	Indoor CATV optical receiver
Bandwidth	1	100 MHz
	2	200 MHz
	7	750 MHz
	8	870 MHz
	9	1000 MHz
Reception sensitivity	1	-32 dBm
	0	-22 dBm
Number of optical receiver	4	4 pcs
	7	7 pcs
	8	8 pcs
Number of optical transmitter	0	None
	1	1 pcs
Whether has LCD on the front panel	A	With LCD
	B	Without LCD
Network management	N	No
	W	With
RF output port position	B	Back panel
Optical port position	B	Back panel
Connector	SA	SC/APC
	FA	FC/APC
	LA	LC/APC
Power supply	22	220 VAC
	11	110 VAC
	48	-48 VDC

### Technical index

Performance			Index			Supplement
			Min.	Typ.	Max.	
Optical feature	Operating wavelength	(nm)	1200		1620	
	Responsivity	(A/W)	0.9	1.0		1310 nm
			0.9	1.0		1550 nm
			0.85	0.95		1610 nm
	Optical link budget loss	(dB)	17			
	Receiving power	(dBm)	-17		-7	Typical
				-23	-22	Sensitivity (Pr)
			0	+1		Overload (Po)
	Number of optical receive	(pcs)	4			
	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	-20.0	-19.5	
	Noise power ratio	(dB)	37			F-P, link loss >15dB
41					FFB, link loss >15dB	
General feature	Power supply	(V)	90	220	265	AC
			-30	-40	-72	DC
	Power consumption	(W)			48	
	Operating temp.	(°C)	-40		+65	
	Relative humidity	(%)	5		95	
Size (W)×(D)×(H)		19×12×1.75 (")				
		483×305×44 (mm)				