

FTTH CATV Optical Receiver

SR2040AW (47~1000MHz)

SOFTTEL®

1.0 PRODUCT DESCRIPTION

SR2040AW, the operating bandwidth of 47~1000MHz, is a low power, high performance, cost-effective triple play, FTTH CATV optical receiver, Whether used in analog television or digital television. Products with high sensitivity optical receiver tube and special low noise matching circuit. SR2040AW within a large dynamic range of the received optical power of +2 dBm ~-18dBm, have excellent characteristics.

2.0 PRODUCT FEATURE

1. Extra-low noise
2. Wide dynamic receiving optical power range: within Pin=-16, MER≥36dB
3. Applicable GPON, EPON, compatible with any FTTx PON technology
4. Can save a large number of optical power resource, greatly reduce the network configuration cost
5. Within 47~1000MHz bandwidth, all with excellent flatness feature (FL≤±1dB)
6. Metal case, offer safeguard for optoelectronic sensitive devices
7. High output level, can be used by many users
8. Low power consume, high performance, high cost performance

3.0 MAIN APPLICATION

1. CATV FTTH
2. Integration of three network
3. FTTH PON

4.0 STATUS INDICATION

1. Red Flashing: > 0dBm
2. Green: ≤ 0dBm & >-10dBm
3. Red: ≤ -10dBm



5.0 TECHNICAL INDEX

	Performance	Index	Supplement	
Optic Feature	CATV Work wavelength	(nm)	1540~1560	
	Pass wavelength	(nm)	1310, 1490	
	Channel Isolation	(dB)	≥35	
	Responsibility	(A/W)	≥0.85	1310nm
			≥0.9	1550nm
	Receiving power	(dBm)	+2~-18	
	Optical return loss	(dB)	≥55	
Optical fiber connector		SC/APC		
RF Feature	Work bandwidth	(MHz)	47~1000	
	Flatness	(dB)	≤±1	47~1000MHz
	Output level(Port 1&2)	(dBμV)	87±2	Pin=+0~-10dBm AGC
	Return loss	(dB)	≥14	47 ~ 862MHz
	Output impedance	(Ω)	75	
	Output port Number		2	
	RF tie-in		F-Female	
Analog TV Link Feature	Test channel	(CH)	59CH(PAL-D)	
	OMI	(%)	3.8	
	CNR1	(dB)	53.3	Pin=-2dBm
	CNR2	(dB)	45.3	Pin=-10dBm
	CTB	(dB)	≤-61	
	CSO	(dB)	≤-61	
Digital TV Link Feature	OMI	(%)	4.3	
	MER	(dB)	≥36	Pin=-16dBm
			≥30	Pin=-20dBm
BER	(dB)	<1.0E-9	Pin:+2~-21dBm	
General Feature	Power supply	(V)	DC+12V	±1.0V
	Power Consume	(W)	≤3	+12VDC, 180mA
	Work Temp	(°C)	-25~ +65	
	Storage Temp	(°C)	-40 ~ 70	
	Work relative temp	(%)	5 ~ 95	
	Size	(mm)	50×88×22	

6.0 NOTE

1. The power adapter for this equipment: Input 110-220V, output DC 12V(0.6A)
2. Keep the optical connector clean, the bad link will cause too low RF output level
3. The built-in RF adjustable attenuator(PAD) of equipment can debug suitable level for system users .
4. Should not adjust by themselves, to avoid the device damage.

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