

L1B series FTTB CATV Receiver

L1B series, is a low power consumption, high index, with SNMP network management, AGC, full function FTTB optical receiver. Housed in a aluminum wall mount housing (non rain-proof), Nixie tube displaying parameters. It features many different kind of flexible configurations as followed:

1. Operation bandwidth: 47~862MHz or 47~1050MHz.
2. RF output ports:1Ch@104dBuV or 2Ch@100dBuV.
3. Optional SNMP network management.
4. Optional Built-in CWDM for multiplexing 1310/1490nm data stream.
5. Optional Built-in power supply or external power supply



FEATURES

- Miniature design with multiple outputs.
- Extra-low noise (3.8% modulate, -10dBm receive, CNR \geq 45dB)
- Receiver Optical power in the range of +3dBm to -12dBm with excellent linearity
- RF 47~862MHz with good flatness (FL \leq \pm 1.0dB)
- Built-in inter-stage gain adjustment, high CNR and suitable output level can be achieved according to different receiving optical power.
- Zinc die-casting metal housing
- Low power consumption, high cost performance

SPECIFICATIONS

Optic Features		Remark	
Operating wavelength	1260~1620	nm	without CWDM option
	1540~1560		-F & -C Options
Input wavelength	1310, 1490/1550	nm	
Pass wavelength	1310, 1490	nm	
Channel isolation	>40	dB	
Responsivity	>0.85	A/W	1310nm
	>0.9		1550nm
Receiving power	+2~ -10	dBm	Analog TV
	+2~-16		Digital TV
Optical return loss	>50	dB	SC/APC or FC/APC
Optical fiber connector	SC/APC		
RF Specifications			
Bandwidth	47-862	MHz	L1BxCR48xxx
	47~1050		L1BxCR41xxx
Flatness	< \pm 0.75	dB	L1BxCR48xxx (47~862MHz)
	< \pm 1		L1BxCR41xxx (47~1050MHz)
Output level (nomial/max)	100/106	dBuV	L1B1CRxx100
	104/110		L1B2CRxx104
Number of RF output	1		L1B1CRxx104
	2		L1B2CRxx100
Return loss @ 47-862MHz	>16	dB	L1BxCR48xxx (47~862MHz)
	>12		L1BxCR41xxx (47~1050MHz)

<i>ALC feature</i>	<±0.5	dB	Pin: -7.0~ +2.0dBm
<i>EQ ADJ</i>	0~15	dB	
<i>Output impedance</i>	75	Ω	
<i>Output level adjust</i>	-20~0	dB	
<i>RF port</i>	4		
<i>Analog TV specifications</i>			
<i>Test channel</i>	PAL D/59Ch	Ch	47-550MHz Analog
	Digital QAM		550-862 MHz
<i>OMI</i>	3.8	%	
<i>CNR1</i>	53.5	dB	Pin= -2dBm
<i>CNR2</i>	47.5	dB	Pin= -7dBm
<i>CTB</i>	<-63	dB	Pin= -2dBm
<i>CSO</i>	<-67	dB	Pin= -2dBm
<i>HUM</i>	<-60	dB	
<i>Digital TV specifications</i>			
<i>Test channel</i>	<10	Ch	Analog
	Digital QAM		470-862 MHz
<i>MER</i>	38	dB	Pin= -7.0~+2.0dBm
	33.5		Pin= -16.0dBm
<i>BER</i>	<1.0E-9	dB	Pin= -20.0~+2.0dBm
<i>General Specifications</i>			
<i>Power supply</i>	AC 130-265	V	Built in power
	DC 8V @ 0.75A		External power supply
<i>Power consumption</i>	<15	W	
<i>Working temperature</i>	-40 ~ +60	°C	
<i>Storage temperature</i>	-40 ~ +65	°C	
<i>Relative humidity</i>	5~59	%	
<i>Dimension</i>	174×123×42	mm	Built in power
	118×123×42		External power supply

ORDERING INFORMATION

PN	RF Power (dBuV)	Number of RF outputs	SNMP Network Management
LB2CR4803-cdd-x	103	2	
LB4CR4888-cdd-x	88	4	
LB4CR4800-cdd-x	100	4	
c:	C	1310/1490 & 1550nm CWDM filter	
	F	1550nm filter	
dd:	SA	SC/APC	
	LA	LC/APC	
X:	M		with SNMP Network Management
	N		without SNMP Network Management