

L2B series FTTB CATV Receiver

L2B series, is a low power consumption, high index, with SNMP network management, AGC, full function FTTB optical receiver. 2000 series' shells are structure compact aluminum wall mount (without rain-proof), RF interface horizontal output, Nixie tube displaying parameters. RF Overlay interface is optional for IP/QAM and EOC insert, also can used for local program insert.

- RF output port number: L2B1CRxx110, one output port 110dB μ V.
L2B1CRxx106, two ports 106dB μ V output.
L2B4CRxx102, four ports 102dB μ V output.
- PD operation bandwidth:
L2BxCR41xxx, 47~1050MHz.
L2BxCR81xxx, 88~1050MHz , RF Overlay:5~65MHz.
- L2BxCRxxxx -N with SNMP, can using for remote management and control.
- L2BxCRxxxx -R with RF input port, can using for IP/QAM or EOC insert.
- L2BxCRxxxx -C with CWDM, can using for FTTx PON ' s single fiber multi wave application



FEATURES

- Work bandwidth: 47~1050MHz or 88-1050MHz.
- Excellent AGC feature: Pin: - 7.0dBm~+2dBm , Δ Vo : $\leq \pm 0.5$ dB.
- Low noise (3.8% modulation, -8dBm receive, CNR ≥ 46 dB).
- High level output 110 dB μ V.
- Output level (Vo) and slope(EQ) can continuation adjust(By 1dB step).
- No. of RF output: 1way , 2ways, 4ways can be optional.
- RF Overlay interface can be optional for IP/QAM or EOC input.
- L2BxCR81xxx, applies to 5~65MHz low frequency EOC inter-cut.
- Optional SNMP network management.
- Nixie tube displaying all kinds of technical parameters of the overall unit and IP address (revisability).
- Adapts MMIC Amplifier, low power consumption less than 6W

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	LC/APC		
RF Specifications			
Bandwidth	47-862	MHz	L2BaCR41
	88-1050		L2BaCR81, RF overlay 5-65MHz
Flatness	$\leq \pm 1$	dB	
Number of RF output	1		L2B1CRxx110
	2		L2B2CRxx106
	4		L2B4CRxx102

<i>Output level</i>	110	dB μ V	L2B1CRxx110
<i>Return loss @ 47-862MHz</i>	>16		L1BxCR48xxx (47-862MHz)
	>12		L1BxCR41xxx (47-1050MHz)
<i>ALC feature</i>	< \pm 1	dB	Pin: -9.0~ +2.0dBm
<i>EQ ADJ</i>	0~15		
<i>Output level adjust</i>	-15~0	dB	1dB stepping
<i>RF overlay bandwidth</i>	47~1050	dB	L2BxCR41xxx
	5~65	dB	L2BxCR81xxx
<i>RF overlay input level</i>	80	MHz	-R option
<i>Output impedance</i>	75		
<i>RF port</i>	F - Female	dB μ V	
<i>Analog TV specifications</i>		Ω	
<i>Test channel</i>	PAL D/59Ch	dB	47-550MHz Analog
	Digital QAM		550-862 MHz
<i>OMI</i>	3.8	Ch	
<i>CNR1</i>	53.5		Pin= -2dBm
<i>CNR2</i>	47.5	%	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>		dB	
<i>Test channel</i>	<10	dB	Analog
	Digital QAM		470-862 MHz
<i>MER</i>	37	Ch	Pin= -7.0~+2.0dBm
	33		Pin= -16.0dBm
<i>BER</i>	<1.0E-9	dB	Pin= -20.0~+2.0dBm
<i>General Specifications</i>			
<i>SNMP Connector</i>	RJ45	dB	Built in power
<i>Operating Voltage</i>	8	V	External power supply
<i>Operating Current</i>	0.75	A	
<i>Power consumption</i>	<15	W	
<i>Working temperature</i>	-40 ~ +60	$^{\circ}$ C	
<i>Storage temperature</i>	-40 ~ +65	$^{\circ}$ C	
<i>Relative humidity</i>	5-59	%	
<i>Dimension</i>	163x125x32	mm	

ORDERING INFORMATION

PN	RF Power (dBuV)	RF bandwidth (MHz)	Number of RF outputs	SNMP Network Management
L2B1CR41110-cdd	110	47~1050	1	
L2B1CR81110-cdd	110	88~1050	1	
L2B2CR41106-cdd	106	47~1050	2	
L2B2CR81106-cdd	106	88~1050	2	
L2B4CR41102-cdd	102	47~1050	4	
L2B4CR81102-cdd	102	88~1050	4	
c	C		1310/1490 & 1550nm CWDM filter	
	F		1550 filter	
dd	SA		SC/APC	
	LA		LC/APC	
e	R		RF Overlay	
	N		SNMP	
X	M			with SNMP Network Management
	N			without SNMP Network Management