

AGC, SNMP Bidirectional Optical CATV Receiver

Lightem L1C series (two-port or four-port), is a type of high-grade AGC, Network management, Bi-direction, outdoor optical receiver. Various operating parameters of machine are microprocessor-controlled, LED display. Through the keys of machine can adjust and set EQ, ATT. Optional network transponder, implement remote network management. Large dynamic range of optical AGC characteristics, Lightem L1C series (two-port or four-port) high output ,for FTTC, FTTN fiber access network. As a unit of CATV network RX, is a high performance, highly flexible, cost-effective CATV optical receiver.

L1C2CR series: AGC, Bi-direction, 2 ports output outdoor optical receiver, With network management Transponder.

L1C4CR series: AGC, Bi-direction, 4 ports output outdoor optical receiver, With network management Transponder.



FEATURES

- Excellent AGC characteristics: Pin: $-9.0\text{dBm} \sim +2\text{dBm}$, $\Delta V_o : \pm 1.0\text{dB}$.
- Variety of machine operating parameters controlled by the microprocessor , LED display.
- Output level and slope, adjust and set through the microprocessor.
- High performance, high reliability.
- Best cost performance of industry.

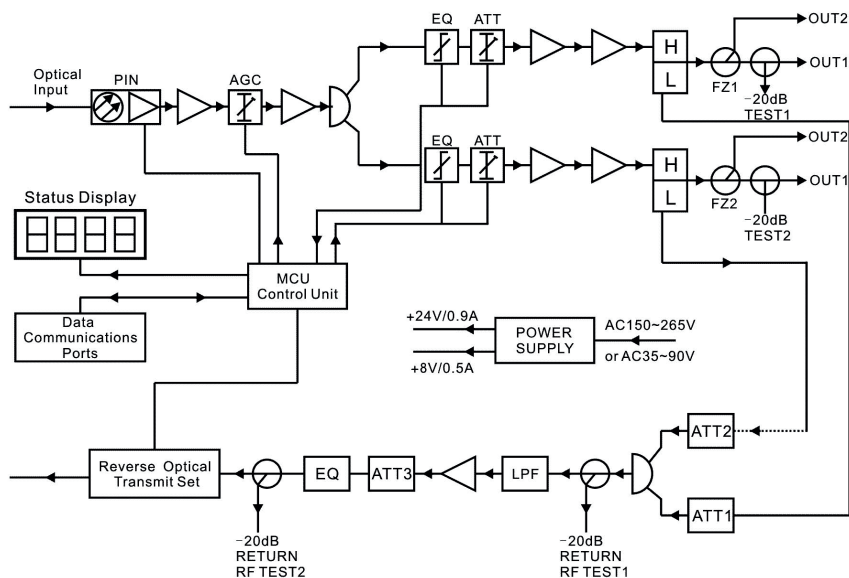
SPECIFICATIONS

Optic Features		Remark
Operating wavelength	1260~1620 nm	
Response Degree	>0.85 A/W	1310 nm
	>0.9	1550 nm
Optical AGC control range	-9~+2 dBm	
Optical return loss	≥ 50 dB	
Fiber linker	LC/APC	Optional SC / APC , FC / APC
RF Specifications		
Bandwidth	47~862 MHz	L1C2CR series / L1C4CR series
	52~862	L1C2CR series / L1C4CR series
	88~862	L1C2CR series / L1C4CR series
Flatness	$\leq \pm 1.0$ dB	
Output Level	108 ± 1.0 dB μ V	
AGC feature	$\leq \pm 1.0$ dB	
Output level adjustment	-20~0 dB	
Output slope adjustment range	-10~0 dB	
Return Loss	≤ 14 dB	
Output Impedance	75 Ω	
RF connector	F - Female	
Link feature		
Test channel	59Ch (PAL-D) Digital QAM	Ch 47~550MHz analog , 550~862MHz
OMI	3.8 %	Pin = -2.0dBm
CNR	≥ 52 dB	$V_o = 108$ dB μ V
CTB	≥ -65 dB	$V_o = 108$ dB μ V
CSO	≥ -60 dB	
HUM	≥ -60 dB	

<i>Return transmit feature</i>			
<i>Optical emission wavelength</i>	1310	(nm)	43×4, 63×4
	1550		45×4, 65×4
	1590		49×4, 69×4
	1610		46×4, 66×4
<i>Laser type</i>	DFB		4×D4, 6×D4
	FP		4×F4, 6×F4
<i>Optical output power</i>	2~4	(dBm)	
<i>Optical connector type</i>	LC / APC		Optional SC / APC , FC / APC
<i>RF operating bandwidth</i>	5~42	(MHz)	L1C2CR series / L1C4CR series
	5~65		L1C2CR series / L1C4CR series
<i>Input level</i>	85~90	(dBμV)	
<i>Input Impedance</i>	75	(Ω)	
<i>Laser turn-on time</i>	0.5~1.0	(μs)	
<i>Laser turn-off time</i>	0.5~1.5	(μs)	
<i>General feature</i>			
<i>SNMP network management interface</i>	RJ45		
<i>Power supply</i>	AC (150~265) V	(V)	AC220
	AC (35~90) V		AC60
<i>Power consumption</i>	≤15	(W)	
<i>Work Temp.</i>	-40~60	(°C)	
<i>Storage temp.</i>	-40~65	(°C)	
<i>Relative humidity</i>	5~59	(%)	
<i>Size (W)×(D)×(H)</i>	9.4×9.4×5.9 (")/240×240×150 (mm)		

APPLICATIONS

- FC
- FTTC, FTTN



ORDERING INFORMATION

P/N	DESCRIPTION	
L1C2CR48108	108dBuV, 47-862MHz, 2 Outputs	2Ch 108dBuV, no return path
	L1C Series, Low power, AGC, SNMP, no return path	
L1C2CR58108NP	108dBuV, 52-862MHz, 2 Outputs	2Ch 108dBuV, 5-42MHz return path
	L1C Series, Low power, AGC, SNMP, 5-42MHz return path	
L1C2CR58108NP	108dBuV, 88-862MHz, 2 Outputs	2Ch 108dBuV, 5-65MHz return path
	L1C Series, Low power, AGC, SNMP, 5-65MHz return path	
L1C4CR48108	108dBuV, 47-862MHz, 4 Outputs	2Ch 108dBuV, no return path
	L1C Series, Low power, AGC, SNMP, no return path	
L1C4CR58108NP	108dBuV, 52-862MHz, 4 Outputs	2Ch 108dBuV, 5-42MHz return path
	L1C Series, Low power, AGC, SNMP, 5-42MHz return path	
L1C4CR58108NP	108dBuV, 88-862MHz, 4 Outputs	2Ch 108dBuV, 5-65MHz return path
	L1C Series, Low power, AGC, SNMP, 5-65MHz return path	