

CHP Max Headend Optics Platform

CHP-L2RR-S
Low Noise Dual Return Path Receiver

FEATURES

- Low noise option for RFoG applications with squelch function
- Squelch function allows combining multiple L2RR returns together
- High Sensitivity enables long optical link budgets to serve more subscribers, increase link distance, and allow more RF combining into the CMTS
- Configure, monitor, and manage with CORView[™] Element Management System



PRODUCT OVERVIEW

The CHP-L2RR-S return path receiver module is specifically designed for RF-over-Glass (RFoG) and Fiber Deep applications that require large optical link budgets. The module utilizes very low-noise photo detectors to enable the receiver to operate at very low optical input powers. For typical RFoG networks, this increases the return-path link budget to optically combine up to 128 subscribers, increase link distances, and allow more RF combining into a Cable Modem Termination System (CMTS) port.

For RFoG applications, the CHP-L2RR low-noise return receiver achieves the best distortion performance with a lower optical input range for longer distances. The receiver supports an optional dual window squelch function, which provides an attenuation of >35 dB when return path RF is below the preset RF threshold level. This improves overall link performance by reducing the noise contribution of combined receivers.

Ask us about the complete Access Technologies Solutions portfolio:

Headend Optics-CHP



	Low Main Book Bathan Bath Banding (CUB 1200 C)				
	Low Noise Dual Return Path Receiver (CHP-L2RR-S)				
Optical Specifications					
Input Wavelength Range	1260 to 1620 nm				
Optical Input Range	−26 to −10 dBm				
RF Specifications					
RF Output Bandwidth	5 to 100 MHz				
RF Output Power Level, min., per channel (Notes 1 and 2)	28 dBmV, with -21 dBm input and 7% OMI from return TX				
Frequency Response Flatness, peak-to-valley	± 0.75 dB				
Frequency Response Slope, highest frequency to lowest	± 1.0 dB				
RF Gain Adjustment Range	0 to -31.5 in 0.5 dB steps				
Return Loss, min.	16 dB				
RF Test Point	$-20 \pm 0.5 dB$				
Performance Specifications					
Equivalent Noise Input, max.	<1.5 pA/Hz ^{0.5} (Note 3)				
Channel-to-Channel Isolation, RF Output Bandwidth	> 65dB				
Power Consumption	16 W				
Mechanical Specifications					
Dimensions (W x H x D)	1.25 x 3.44 x 18.5 in. (3.18 x 8.74 x 46.99 cm)				
Environmental Specifications					
Operational Temperature Range	32 to 122°F (0 to 50°C)				

Ordering Information											
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	С		Н	Р	_	L	2	R	R	-	S
	1 Receiver Type										
	L	Low Noise									
	2	No. of Receivers									
	2 Dual Receivers										
	3 Connector Type										
S SC/APC											

RELATED PRODUCTS				
CHP Chassis	Optical Patch Cords			
Power Supplies	Optical Passives			
Management Module	Installation Services			

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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^{1.} Measured with CW carriers.

^{2.} RF output for the CHP-L2RR is based on an optical input of -21 dBm and a transmitter OMI of 7%. 3. <1.5 pA/Hz^{0.5} from 5 to 100 MHz, <1.3 pA/Hz^{0.5} from 5 to 42 MHz.