

WISI LR 10 E LRx0

RFoG Node for FTTH deployments

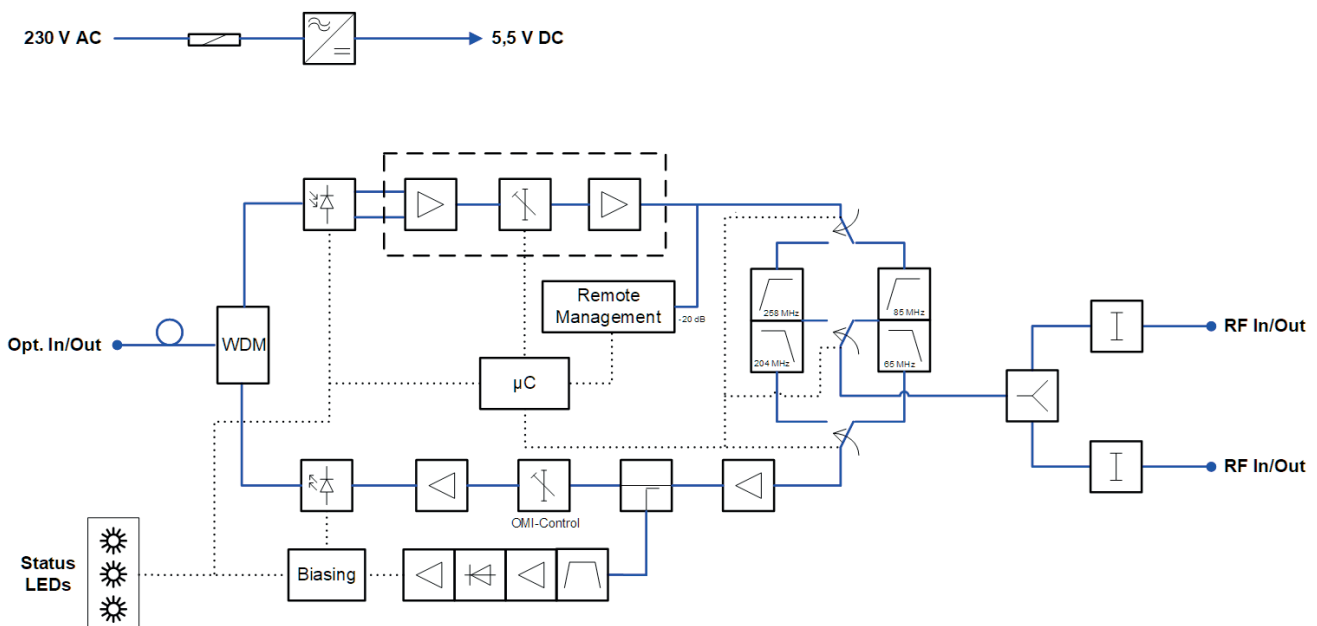


At a glance:

- FTTH Node for RFoG Systems
- Living room adopted case design
- DOCSIS 3.1 ready: US up to 204 MHz, DS 1218 MHz
- Remote Control feature according to EN 60728-14
- Selectable upstream bandwidth via remote control interface or fixed frequency
- Single fiber operation
- Extremely low noise receiver
- Optical ALC
- Optical input range -6 ... +2 dBm

Description

The LR 10 RFoG extension module is the perfect complement to FTTH applications when it comes to indoor installations, and fits perfectly into any type of home with its unobtrusive case design. This RF over glass (RFoG) node, which is connected via a single fiber, supports DOCSIS 3.1 with up to 204 MHz upstream. Different versions with either Remote (FSK) switchable upstream frequency (between 65 and 204 MHz) or with fixed upstream frequencies, either 65 or 204 MHz are available. The optical ALC and its remote control features ensure a smooth rollout and operational process for all types of cable operators.



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Technical data	
Downstream	
Wavelength	1535...1565 nm
Optical return loss	>40 dB
Output impedance	75 Ω
Output return loss	≥ 18 dB
Frequency range	85...1218 MHz/ 258...1218 MHz
Output level flat (121 x QAM256), (EN60728-3-1)	2x 60 dB μ V (BER <1 exp-9), (@ 2,5% OMI)
Optical input power	-6...+2 dBm
Amplitude response	$\leq \pm 1$ dB
Equivalent noise input	max. 4,5 pA \sqrt /Hz
Upstream	
Laser	Isolated DFB-Laser
Wavelength	according to order code
Optical power	3 dBm (± 1 dB)
Frequency range	15...65 MHz/ 15...204 MHz
RF input level	95 dB μ V (8% OMI)
Amplitude response	± 1 dB
Input return loss	≥ 18 dB
General data	
Optical connector	SC/APC, LC/APC
Fiber type	Single Mode 9/125 μ m
RF connector	F-type, IEC male/female
Supply voltage	12 V DC
Power consumption	≤ 3 W
Ambient temperature	0...40 $^{\circ}$ C
EMC	EN50083-2
Dimensions (width x height x depth)	88 x 88 x 30 mm