Product information

WISI LR 11 x xxx0

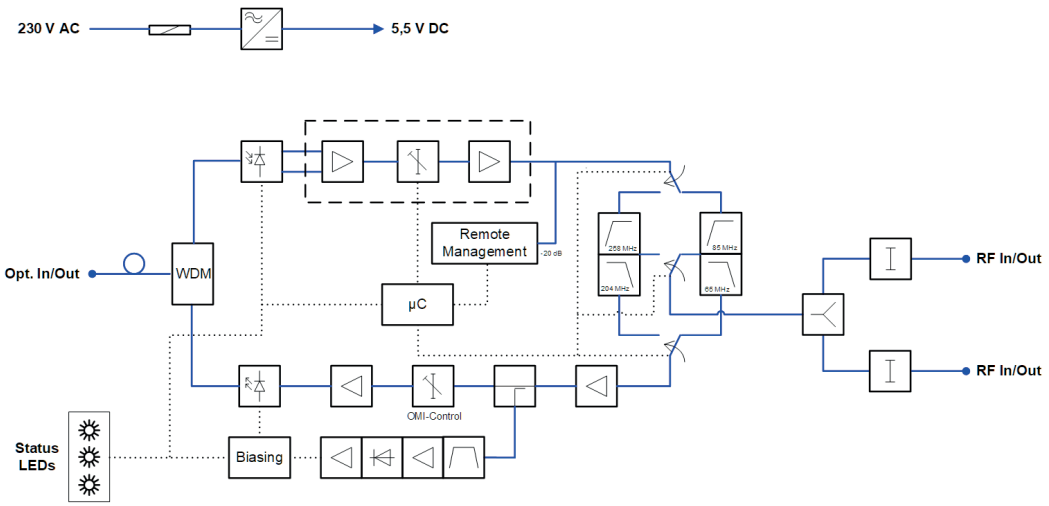
RFoG Node for FTTH deployments

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 ... +3 dBm

Description

The LR 11 RFoG Node is the perfect match for FTTH deployments, considering the placement in living room environments. With its sleek case design, it fits perfectly into each kind of apartment. Typical fiber-to-the-home scenarios are covered by this fiber node. Connected through a single fiber, this RF over Glass (RFoG) node is DOCSIS 3.1 ready with an upstream up to 204MHz. With the option of three device variants. One version with the remote (FSK) switchable upstream frequency limits (between 65 and 204 MHz). Or two other versions with fixed upstream frequencies, either 65 or 204 MHz. The optical ALC and its remote control features ensure a smooth rollout and operation process for all kind of cable network providers.



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Technical data	
Downstream	
Wavelength	1535...1565 nm
Optical return loss	>40 dB
Output return loss	≥18 dB
Frequency range	85...1218 MHz/ 258...1218 MHz
Outputlevel flat (121 x QAM256), (EN60728-3-1)	2x 60 dBµV (BER <1 exp-9), (@ 2,5% OMI)
Optical input power	-6...+3 dBm
Amplitude response	≤ ±1 dB
Equivalent noise input	max. 4,5 pA/√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 dBµV (5% OMI)
Amplitude response	±1 dB
Input return loss	≥18 dB
Interfaces	
Optical connector	LC/APC or SC/APC (see order code)
RF connector	F-Typ, IEC male/female (see order code)
General data	
Supply voltage	230 V AC
Power consumption	≤4,5 W
Output impedance	75 Ω
Dimensions (width x height x depth)	150 x 111 x 31 mm
Electro Magnetic Compatibility (EMC)	EN50083-2
Ambient temperature	0...40 °C

LR11XXXX0

Options:
0 – default

Diplexer:
1 – default - switchable via VT21
2 – 65/85MHz
5 – 204/258 MHz

Upstream wavelength:
1 – 1270 nm
2 – 1290 nm
3 – 1310 nm
4 – 1330 nm
5 – 1350 nm
6 – 1370 nm
7 – 1390 nm
8 – 1410 nm
9 – 1430 nm
A – 1450 nm
B – 1470 nm
C – 1490 nm
D – 1510 nm
E – 1530 nm (on special request only)
F – 1570 nm (on special request only)
G – 1590 nm
H – 1610 nm

U – 1510 nm (incl. WDM filter)
V – 1530 nm (incl. WDM filter) (on special request only)
W – 1570 nm (incl. WDM filter) (on special request only)
X – 1590 nm (incl. WDM filter)
Y – 1610 nm (incl. WDM filter)

Management:
0 – no VT21 equipped
1 – VT21x – 862 MHz
2 – VT21x – 868,3 MHz
3 – VT21x – tunable

Connector types:
A – duplex LC/APC, 2x F
B – simplex SC/APC, 2x F
C – duplex LC/APC, IEC male & F
D – simplex SC/APC, IEC male & F
E – duplex LC/APC, 1x IEC male & 1x IEC female
F – simplex SC/APC, 1x IEC male & 1x IEC female