Product information

WISI LX 11 S 2x00

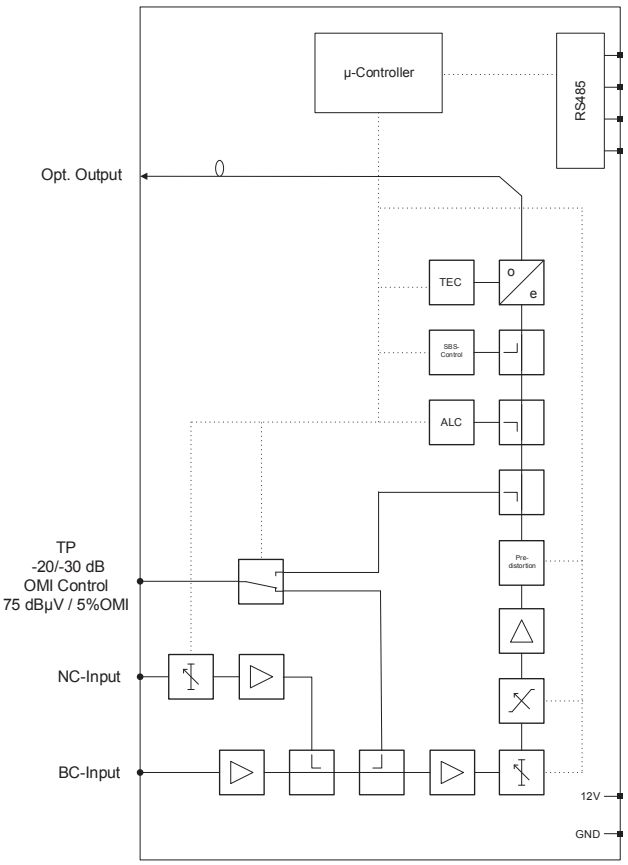
1,2 GHz 1310 nm Transmitter

At a glance:

- Optical HFC transmitter for use in WISI Chassis LX 50
- Adjustable OMI, Slope, NC-Input
- Automatic level control (ALC)
- Fullband transmitter 15...1218 MHz, Docsis 3.1 Ready
- High RF Input Isolation
- OMI Control Testport
- SBS suppression

Description

The LX 11 is part of the Optopus product portfolio. LX 11 is a single direct modulated fullband transmitter with 1310 nm for use in HFC networks. The Optopus platform is a highly flexible and high density platform for all kinds of analog optical networks. The system is used in any network such as HFC, RF over Glass or RF Overlay in FTTX applications.



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WISI LX 11 S 2x00

Technical data	
Downstream	
Wavelength	1310 nm (± 10 nm)
Optical output power	6 dBm (4 mW); 8 dBm (6,3 mW), 10 dBm (10 mW), 13 dBm (20 mW)
Relative intensity noise (RIN)	< -155 dB√Hz
Optical return loss	>40 dB
Frequency range	15...1218 MHz
Input level broadcast	78 dBµV (PAL-Level)
Input level Narrowcast	82 dBµV (QAM-Level, 6 dB back off)
Gain control range	±5 dB
Slope Control Range	±2 dB
NC Offset	±2 dB
Decoupling NC/BC input	≥50 dB
Test point	-20/-30 dB (BC-/NC-Input & 75 dBµV @ 5% OMI)
Electrical return loss	≥20 dB
Ripple	≤ ±0,5 dB
Signal performance	
CSO	≥63 dBc (42 channels CENELEC)
CTB	≥65 dBc (42 channels CENELEC)
MER	≥44 dB (121 QAM 256 Ch.), (10km fiber, -1 dBm @ opt. receiver)
BER	≤10E-9 (121 QAM 256 Ch.), (10km fiber, -1 dBm @ opt. receiver)
Connectors	
Optical connector	SC/APC
F-socket	1 pcs. (75 Ohm)
General data	
Power consumption	≤9 W
Environmental parameters	-5...+45 °C (EN300 019-1-3 Class 3.2)
Dimensions (width x height x depth)	30 x 133 x 320 mm
Management functionality	
Laser	On/Off
ALC	On/Off
Attenuator	0...10 dB
Slope	-2...+2 dB
Narrowcast-Offset	-2...+2 dB
SBS suppression	On/Off
Measurement	
Optical output power	dBm
Laser Current	mA
Laser Temperature	°C
TEC Current	mA
RF-Level	dB

LX 11 X 2X00

Wavelength TX1:
0 – 1310 nm +/- 10 nm

Output power:
26 – 6 dBm, 1.2 GHz (uncooled DFB)
28 – 8 dBm, 1.2 GHz (cooled DFB)
20 – 10 dBm, 1.2 GHz (cooled DFB)
23 – 13 dBm, 1.2 GHz (cooled DFB)

Connector type:
S – SC/APC