

WISI LX 15 S 120x

1550 nm BC-transmitter

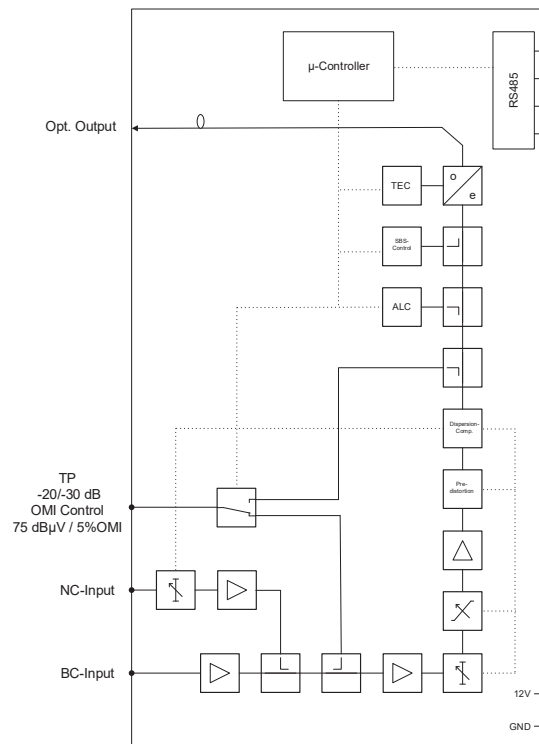


At a glance:

- Hot pluggable
- Adjustable OMI
- SBS suppression
- Electronic predistortion

Description

The LX 15 is part of the Optopus product portfolio. LX 15 is a direct modulated fullband transmitter with 1550 nm for use in RF Overlay and RFoG 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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Technical data	
Downstream	
Laser type	Temperature stabilized DFB laser
Wavelength	1555 nm (± 0,5 nm or DWDM Channel (100 GHz-Grid))
Optical output power	10 dBm (10 mW)
Relative intensity noise (RIN)	< -155 dB _v /Hz
Optical return loss	>40 dB
Frequency range	15...1218 MHz
Input level broadcast	78 dB _μ V
Input level Narrowcast	88 dB _μ V
Gain control range	± 5 dB
Slope Control Range	± 2 dB
Narrowcast-Offset	± 2 dB
Decoupling NC/BC input	≥50 dB
Test point	-20/-30 dB (BC-/NC-Input & 75 dB _μ V @ 5% OMI)
Electrical return loss	≥20 dB
Ripple	≤ ±0,5 dB
Max Fiber Length	
LX 15 S 1200	0...25 km
LX 15 S 1201	0...15 km
LX 15 S 1202	0...45 km
SBS suppression	
LX 15 S 1200	16 dBm
LX 15 S 1201	21 dBm
LX 15 S 1202	16 dBm
Signal Performance LX 15 S 1200/1201	
CSO	≥ 60 dBc
CTB	≥ 65 dBc
CNR	≥ 51 dB
MER	≥ 40 dB
Signal Performance LX 15 S 1202	
MER	≥ 40 dB
BER	<10 ⁻⁹
Connectors	
Optical connector	SC/APC connectors
F-socket	1 pcs. (75 Ohm)
General data	
Supply voltage	12 V DC
Power consumption	≤9 W
Environmental parameters	-5...+45 °C (ETSI EN 300 019-1-3 Class 3.1)

Technical data	
Housing	WISI LX-Chassis
Management functionality	
Laser	On/Off
ALC	On/Off
Attenuator	0...10 dB
Slope	-2...+2 dB
Narrowcast-Offset	-2...+2 dB
Dispersion Compensation (fiber length)	0...50 km
SBS-Suppression	On/Off
Measurement	
Optical output power	dBm
Laser Current	mA
Laser Temperature	°C
TEC Current	mA
RF-Level	dB
Alarms:	
Optical output power	to high / to low
RF-Level	to high / to low
Laser Current	to high
TEC Current	to high

LX 15 X 120X

Channel/Options:	00 – 1550nm, 25km, 16 dBm SBS 01 – 1550nm, 15km, 21 dBm SBS 02 – 1550nm, 45km, 16 dBm SBS
Frequency bandwidth:	2 – 1.2 GHz
Laser type:	DML – Direct modulated Laser
Connector type:	S – SC/APC