

# OPTOPUS



## 1310 nm Transmitter LX 11

Product information



The LX 11 is part of the Optopus product portfolio. LX 11 is a 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.

#### **Features:**

- Optical HFC transmitter for use in WISI Chassis LX 50
- Adjustable OMI
- Automatic level control (ALC)
- Electronic predistortion
- Fullband transmitter 10 - 1006 MHz
- SBS suppression

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# OPTOPUS

## 1310 nm Transmitter

### LX 11



Type	LX 11
Laser type	temperature stabilized DFB-Laser
Wavelength	1310 nm $\pm$ 10 nm
Optical output Power	8 dBm (6 mW) or 10 dBm (10 mW) or 13 dBm (20 mW)
Relative intensity noise (RIN)	< -155 dB $\sqrt$ Hz
Optical return loss	> 40 dB
Frequency range	10 ... 1006 MHz
Input level	
Broadcast	78 dB $\mu$ V (PAL-Level)
Narrowcast	84 dB $\mu$ V (QAM-Level, 4 dB back off)
Narrowcast-Offset (adjustable)	$\pm$ 2 dB
Gain control range	$\pm$ 5 dB
Isolation (NC $\blacktriangleright$ BC)	$\geq$ 50 dB
RF test point	-20 dB BC-Input level
Electrical return loss	$\geq$ 20 dB (-1 dB /Oct., min. 17 dB)
Ripple (E - O)	$\leq \pm$ 0.5 dB
Signal performance (42 Ch. CENELEC)	
CSO	$\geq$ 63 dBc
CTB	$\geq$ 65 dBc
General data	
Chassis	WISI LX - Module
Dimension (W x H x D)	30 mm x 133 mm x 320 mm
Connector type	
Optical	SC/APC
RF	F (75 Ohm)
Supply voltage	12 VDC
Power consumption	$\leq$ 7 W
Operating temperature range	-5°C - +45°C (ETSI EN 300 019 -1-3 Class 3.2)

#### Order information

LX 11 S XXXX



Output Power:

0800 - 8 dBm (6 mW)  
1000 - 10 dBm (10 mW)  
1300 - 13 dBm (20 mW)

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