

OPTOPUS

O-Band Transmitter

LX 11



Product information



The LX 11 is part of the Optopus product portfolio. LX 11 is a direct modulated fullband transmitter with one O-Band wavelength for use in HFC network cluster splitting applications.

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
- O-Band wavelength

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Type	LX 11	
Laser type	temperature stabilized DFB-Laser	
Wavelength	Ch. 1	1330.46 nm \pm 0.05 nm
	Ch. 2	1327.25 nm \pm 0.05 nm
	Ch. 3	1329.22 nm \pm 0.05 nm
	Ch. 4	1325.78 nm \pm 0.05 nm
Optical output Power	10 dBm (10 mW)	
Relative intensity noise (RIN)	< -155 dB \sqrt Hz	
Optical return loss	> 40 dB	
Frequency range	10 ... 1006 MHz	
Input level	Broadcast	78 dB μ V (PAL-Level)
	Narrowcast	84 dB μ 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 100x



Wavelength:

- 1 - Ch. 1: 1330.46 nm \pm 0.05 nm
- 2 - Ch. 2: 1327.25 nm \pm 0.05 nm
- 3 - Ch. 3: 1329.22 nm \pm 0.05 nm
- 4 - Ch. 4: 1325.78 nm \pm 0.05 nm

WISI Communications GmbH & Co. KG

Empfangs- und Verteiltechnik
 Wilhelm-Sihn-Straße 5-7
 75223 Niefern-Oeschelbronn, Germany

Telefon +49 72 33-66-0 Fax -3 50
 info@wisi.de
 www.wisi.de



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