

OPTOPUS



Quattro Upstream RFoG Receiver

LX 23

Product information



The LX 23 is part of the Optopus product portfolio. LX 23 is a quattro upstream receiver for use in 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.

Features:

- Optical quattro upstream receiver for use in WISI Chassis LX 50
- 4 independent upstream channels per unit or one combined output
- 4 RF output ports at rear
- Integrated RFoG-Filter (1610 nm or 1310 nm)
- IDS noise suppression (Squelch)

excellence in digital ...

Type		LX 23	
Optical receivers		4	
RFoG upstream wavelength		1310 nm	1610 nm
Wavelength	Network port	1270 nm ... 1565 nm	1260 nm ... 1620 nm
	RFoG receiver	1270 nm ... 1350 nm	1600 nm ... 1620 nm
	BC port	1530 nm ... 1565 nm	1260 nm ... 1590 nm
Optical input level		-28 ... -10 dBm	
Thermal receiver noise		≤ 1.0 pA /√Hz	
Optical return loss		≥ 45 dB	
Isolation	Network ◀▶ RFoG	≥ 40 dB	
	Network ◀▶ Input	≥ 15 dB	
Directivity		≥ 60 dB	
Insertion Loss	BC ▶ Network	≤ 0.8 dB	
	Network ▶ RFoG receiver	≤ 1.0 dB	
Electrical output return loss		≥ 20 dB (-1 dB/Oct.)	
Frequency range		5 ... 100 MHz	
Frequency response		≤ ± 0.75 dB	
Electrical output			
Output level (15% OMI @ -28 dBm)		90 dBμV	
Attenuator		0 ... 40 dB (1 dB steps)	
RF Test point		-20 dB	
General data			
Chassis		WISI LX – Module	
Dimension (W x H x D)		30 mm x 133 mm x 320 mm	
Connector type	Optical	LC/APC	
	RF	F (75 Ohm)	
Supply voltage		12 VDC	
Power consumption		≤ 12 W	
Operating temperature range		-5 °C – +45 °C (ETSI EN 300 019 -1-3 Class 3.2)	

Order information

LX 23 L 04xx

RFoG wavelength	31 - 1310 nm
	61 - 1610 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

