

WISI LX 24 x xExx

Multidiode Receiver for RFoG Networks,
dual fiber version with EDFA

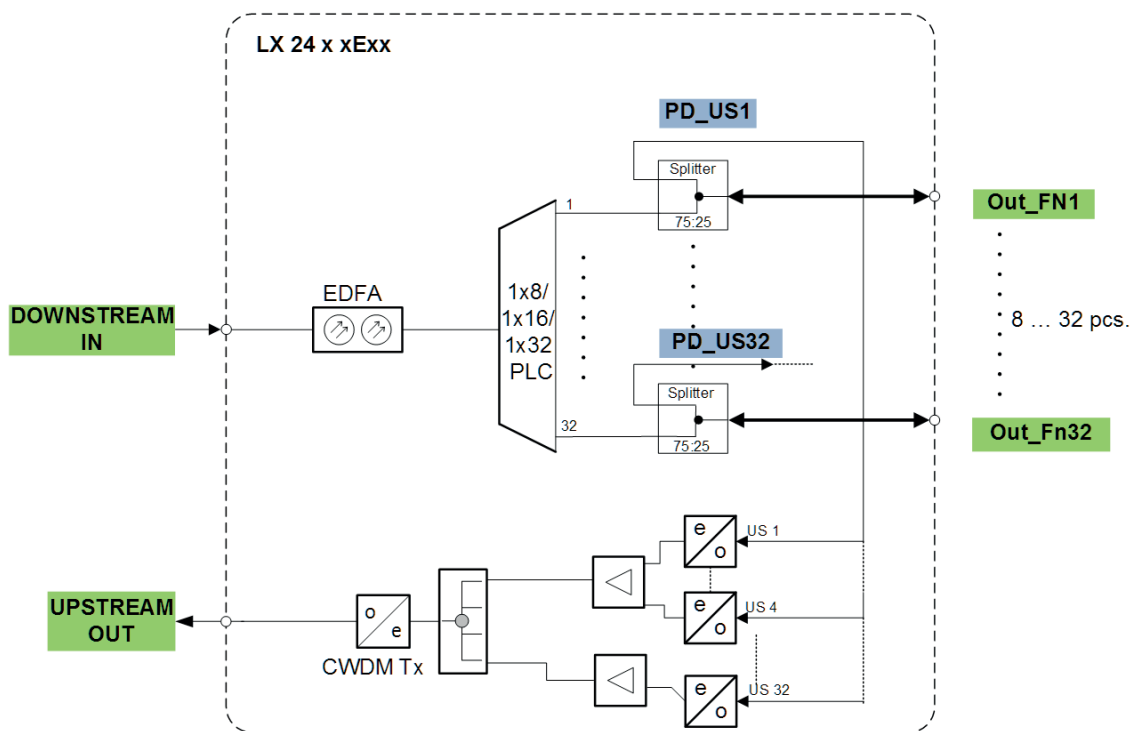


At a glance:

- Dual Fiber Version
- Multidiode receiver for RFoG networks
- Converts existing RFoG networks to OBI free solutions without exchange of fiber nodes
- Remote optical input power reading and switch off functionality per port via SNMP und WEB
- Integrated CWDM Upstream transmitter
- Integrated EDFA (with optional XPON bypass) to compensate splitter loss
- Electrical upstream test port
- Local or remote powered version available

Description

Upgrading your network infrastructures to OBI-free (Optical Beat Interference) RFoG networks with this active upstream receiver. Use up to 32 output ports (or cascade them to reach higher port numbers) and eliminate issues instantly with the dedicated upstream receivers. Each of these ports provides an input power measurement in real time and can be shut off if necessary (testing purposes or subscriber service shutdown). That's why the LX 24/LX 25 enables network providers to heal existing OBI-infected RFoG networks without any need to swap existing end user equipment. The solution will work with any upstream wavelength and laser mode. OPTOPUS and its OBI-free RFoG technology offer network providers a complete future-proof concept, while opening the doors for new FTTx deployments.



WISI Communications GmbH & Co. KG

Wilhelm-Sihn-Str. 5-7
75223 Niefern - Oeschelbronn, Germany

Phone: +49 7233 66-280, Fax: -350
E-Mail: export@wisi.de

Technical Modifications reserved. WISI cannot be held liable for any printing error. 3. Juli 2017, 11:20 vorm.

Technical data

Upstream Receiver	
Optical input power	+5...-3 dBm
Receiving wavelength	1260...1630 nm
Frequency range	5(15)...204 MHz
Output level	70...85 dB μ V (OMI=15%/ch)
Frequency response	$\leq \pm 0,5$ dB
Output attenuator	0...40 dB (0,5 dB steps)
Slope control	0...8 dB (0,5 dB steps)
Return loss	> 20 dB ((-1 dB/Okt) min. 16 dB)
Equivalent input noise	max. 7 pA \sqrt /Hz
Integrated upstream transmitter	
Laser type	Uncooled isolated DFB laser
Wavelength	1270...1610 nm (CWDM)
Output power	3 dBm
RIN	< -145 dBHz-1
OMI setting range	3...8 % (75 dB μ V measured @ TP), (step 1 %)
Integrated EDFA	
Optical input level	-2...+10 dBm
Optical output level	17 dBm
Noise figure	< 6 dB
General optical parameters	
Optical return loss	> 45 dB
Insertion loss DS (COM-> Out FN)	typ. 18 dB
Insertion loss US (Out FN-> PD_US)	< 8 dB
Isolation COM -> PD_US	> 60 dB
opt. output level @ output port	typ. -1 dBm
Connectors	
Downstream	1x LC/APC or 1x SC/APC
Upstream	1x LC/APC or 1x SC/APC
Test point	1x F
Node	8x, 16x or 32x ports
General data	
Supply voltage	65 V AC/48 V DC, 230 V AC
Power consumption max.	< 11 W
Ambient temperature	-20...+55 °C
EMC	EN50083-2
Dimensions (width x height x depth)	425 x 43 x 250 mm
Monitoring	
Attenuator range	0...40 (0,5 dB steps)
Slope control	0...8 dB (0,5 dB steps)
Port 1-32 Upstream	On/Off
Port 1-32 Upstream opt. receiving power	dBm

LX 24 X XXXX

Power Supply Type:	A – front connected 110-230 VAC (fixed) D – front connected 48 VDC & 65 VAC (fixed) L – LXPS xxxx slot (rear, pluggable)
Upstream Wavelength:	0 – electrical upstream 1 – 1270 nm 2 – 1290 nm 3 – 1310 nm 4 – 1330 nm 5 – 1350 nm 6 – 1370 nm 7 – 1390 nm 8 – 1410 nm 9 – 1430 nm A – 1450 nm B – 1470 nm C – 1490 nm D – 1510 nm E – 1530 nm F – 1550 nm G – 1570 nm H – 1590 nm I – 1610 nm
Input Configuration	C – combined DS + US (single fiber) E – included EDFA F – incl. EDFA and combined DS + US (single fiber) S – dedicated fiber for DS [US] (dual fiber version for optical US)
Upstream Ports:	O – 8 Ports H – 16 Ports D – 32 Ports
Connector Type	S – SC/APC L – LC/APC