# **WISI LX 24 S 16CI**

### Multidiode Receiver for RFoG Networks, Single fiber version





#### **Description**

A cost-efficient solution for upgrading existing network infrastructures to the level of FTTB (Fiber To The Building), or even FTTH (Fiber To The Home) is RF over Glass (RFoG). It is a passive optical network that transmits HF signals via fiber to the subscriber, similar to a HFC network in the downstream direction. Due to Optical Beat Interference (OBI), many providers experienced difficulties during the ramp up of new RFoG networks and delayed their large scale rollout of new networks. WISI can help you to overcome these issues with the newly developed OBI FREE solution LX 24 as part of the optical OPTOPUS platform. Dedicated upstream receivers for each RFoG node allow the LX 24 to eliminate Optical Beat Interference (OBI) completely. That's why the LX 24 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 OBIfree RFoG technology offer network providers a complete futureproof concept, while opening the doors for new FTTx deployments.

#### At a glance:

- Single 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
- Electrical upstream test port
- Local or remote powered version available

## **WISI LX 24 S 16CI**

power

Technical data		
Upstream Receiver		
Optical input power	+53 dBm	
Receiving wavelength	12601630 nm	
Frequency range	5(15)204 MHz	
Output level	7085 dBµV (OMI=15%/ch)	
Frequency response	≤ ±0,5 dB	
Output attenuator	040 dB (0,5 dB steps)	
Slope control	08 dB (0,5 dB steps)	
Return loss	> 20 dB ((-1 dB/Okt) min. 16 dB)	
Equivalent input noise	max. 7 pA√√Hz	
Integrated upstream transmitter		
Laser type	Uncooled isolated DFB laser	
Wavelength	1610 nm	
Output power	3 dBm	
RIN	< -145 dBHz-1	
OMI setting range	38 % (75 dB <sub>µ</sub> V measured @ TP), (step 1 %)	
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	typ1 dBm	
Connectors		
Downstream	1x SC/APC	
Upstream	1x SC/APC	
Test point	1x F	
Node	16x SC/APC	
General data		
Supply voltage	230 V AC / 2765 V AC (pluggable PSU)	
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	040 (0,5 dB steps)	
Slope control	08 dB (0,5 dB steps)	
Port 1-32 Upstream	On/Off	
Port 1-32 Upstream opt. receiving	dBm	

Deckering date	
Packaging data	
Sales unit	pcs.
Dimensions (WxHxD) sales unit	mm
Packaging volume sales unit	dm³
Gross weight sales unit	kg
Shipping unit	pcs.
Dimensions (WxHxD) shipping unit	mm
Packaging volume shipping package	dm³
Gross weight shipping unit	kg
EAN	
Article number	
Customs tariff number	