

# WISI LX 10 L 8001

Optical Transmitter, CATV + SAT



## Description

The L-type series are designed as a high performance solution for applications where the simultaneous transport of CATV and SAT-IF FM signals is required. The SAT-IF signals can be applied anywhere in the 950 to 2800 MHz band. The WISI LX10 series product line is a family of state-of-the-art high performance 1550 nm externally modulated CATV fiber optic transmitters optimized for varying network applications. Packaged in a convenient 1RU housing, this line of optical transmitters couples high optical output powers, up to 11.0 dBm, with low optical linewidth resulting in unmatched performance. The optical modulator, combined with proprietary predistortion circuitry, provides superior CTB and CSO performance with SBS suppression levels of greater than 20 dBm. Advanced features such as built in field adjustable SBS control and electronic dispersion compensation allows these transmitters to be quickly optimized in the field for any link or application without the need to procure specifically tuned transmitters. This affords the system designer a level of flexibility previously unknown in the CATV market place.

## At a glance:

- Dual optical outputs
- Field adjustable SBS suppression
- External modulated transmitter
- Redundant & hot swappable power supplies
- Management via web interface and SNMP
- Field adjustable SBS suppression

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Technical data	
Wave length	1555 nm ( $\pm 1$ nm)
Specified link length	25 km (in combination with additional EDFA)
Optical output power	2x +8 dBm
SBS suppression	$\geq 14,0$ dBm
Carrier to noise ratio	$\geq 51,0$ dB
Signal performance (37 analog, 50 digital) CSO/CTB	$\geq 70,0$ dBc
Input level	78 / 87 dB $\mu$ V (PAL-Level/SAT-IF)
Front panel RF gain/OMI adjustment range	+2/-4 dB (from nominal setting)
CATV frequency range	47...1006 MHz
CATV flatness	$\pm 0.50$ dB (47 MHz ... 550 MHz), $\pm 0.75$ dB (47 MHz ... 1006 MHz)
CATV electrical return loss	$\geq 16$ dB (47...1006 MHz)
CATV RF test point	-20 dB ( $\pm 1$ dB)
SAT-IF frequency range	950...2800 MHz
SAT-IF flatness	$\pm 2$ dB
SAT-IF electrical return loss	$\geq 10$ dB (950...2800 MHz)
SAT-IF test point	7 $\pm$ 62.5 dB $\mu$ V/Ch @ 1 % OMI/Ch
General data	
Optical connectors	Rear: SC/APC
EMC	EN50083-2
Safety standards	IEC 60950-1; IEC 60728-11; Laser IEC 60825-2
Operating temperature range	0...50 °C (ETSI EN 300 019-1-3 Class 3.2)
Supply voltage	230 V AC, AC primary, AC secondary
Power consumption	$\leq 65$ W
Dimensions (width x height x depth)	483 x 45 x 381 mm
CNR test configuration	EDFA: 15 dBm, Link: 25 km, Received Power: 0 dBm

Packaging data	
Sales unit	pcs.
Dimensions (WxHxD) sales unit	mm
Packaging volume sales unit	dm <sup>3</sup>
Gross weight sales unit	kg
Shipping unit	pcs.
Dimensions (WxHxD) shipping unit	mm
Packaging volume shipping package	dm <sup>3</sup>
Gross weight shipping unit	kg
EAN	4010056723743
Article number	72374
Customs tariff number	851762000

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## Power supply:

- 1 – AC primary, AC secondary
- 2 – AC primary, DC secondary
- 3 – DC primary, DC secondary
- 5 – AC primary, no secondary
- 6 – DC primary, no secondary

## Output:

- 0 – Rear SC/APC
- 2 – Rear E2000/APC
- 3 – Rear LC/APC
- 6 – Front SC/APC
- 7 – Front E2000/APC
- 8 – Front LC/APC

## Wavelength:

- 0 –1555 +/- 5 nm
- 1 – 1550 +/- 5 nm (standard)
- A – ITU ch. 18
- B – ITU ch. 19
- ...
- W – ITU ch. 40

## Output power:

- 7 - 2x 7 dBm
- 8 - 2x 8 dBm
- B - 2x 10 dBm

## Transmitter type:

- K
- S
- L
- P - Power supply