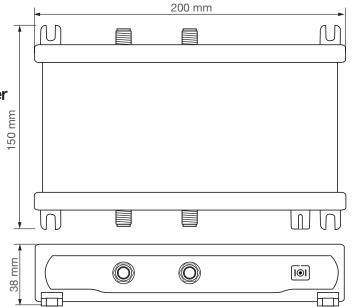


TXWB

Optical Transmitter User manual

- Satellite integrated gain and slope adjustable amplifier
- LNB and TV power feeding
- Test and Monitor for each input
- Optical monitor Led for each Laser
- Double DC input for redundant power supply



Ready for **MADE IN UHDTV ITALY**

Rel. 1.1

OPTICAL TRANSMITTER	TXWB			
SATELLITE RF INPUTS	n°	2		
RF TEST OUTPUTS	n°	2		
OPTICAL OUTPUT	n°	1		
OPTICAL				
OPERATION WAVELENGTH	nm	1310 - 1330		
LASER TYPE		UN-COOLED MULTI QUANTUM DFB		
LASER CLASS		1M, EN 60825-1		
OUTPUT POWER	dBm	≥7		
OUTPUT CONNECTOR		SC/APC		
SATELLITE				
INPUTS BANDWIDTH	MHz	250 2.400		
INPUT RANGE LEVEL (ADJUSTABLE)	dΒμV	70 90		
A.G.C. RANGE	dB	20		
SLOPE ADJUSTER RANGE	dB	0 9		
RETURN LOSS	dB	>12		
MAX. LNB REMOTE FEEDING		5W (340mA@14,5VDC)		
OTHERS				
DC INPUT VOLTAGE	V	12 20		
MAX. POWER CONSUMPTION WITHOUT EXTERNAL LOAD		3W (200mA@15VDC)		
MAX. POWER CONSUMPTION WITH EXTERNAL LOAD		8W (535mA@15VDC)		
SHORT-CIRCUIT PROTECTION		ALL INPUTS		
DIMENSIONS	mm	135x200x38		
OPERATING TEMPERATURE	°C	0 +50		

DESCRIPTION OF SYMBOLS AND ELECTRICAL SAFETY				
C€	The equipment complies with the CE requirements			
	The equipment is designed for indoor use only			
	Equipment grounding terminal			
	This symbol indicates that the equipment complies with the safety requirements for class II equipment			
CAUTION	To avoid the risk of electric shock, do not open the equipment.			
	Invisible Laser Radiation avoid direct exposure to beam			
INVISIBLE LASER RADIATION DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS 1M LASER PRODUCTS	Class 1M laser product. Do not watch directly with optical instruments			
RoHS 2002 95 EC	The equipment is compliant with RoHS 2011/65EU			
	Dispose according to local authorities recycling processes			

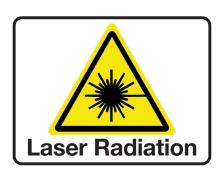
Safety instructions

- 1. Read carefully these instructions
- 2. Keep these instructions
- 3. Heed all warnings
- 4. Follow all instructions
- 5. Do not expose this apparatus to extreme temperatures
- 6. Do not install this apparatus near water or expose to rain and moisture
- 7. Place the apparatus in a dry and well-aired location
- 8. Install the unit on a vertical wall, or in a waterproof cabinet with a minimum IP55 rating, and fix it safely using the provided fixing plugs
- 9. Connect the power adapter cord to a detachable power supply socket
- 10. Unplug the apparatus during lighting storms or when unused for long time
- 11. Only use accessories specified by the manufacturer
- 12. Do not remove the cover without disconnecting from the mains first
- 13. Ambient temperature should not be lower than 0°C and higher than 50°C
- 14. Please allow air circulation around the apparatus



Installation warnings



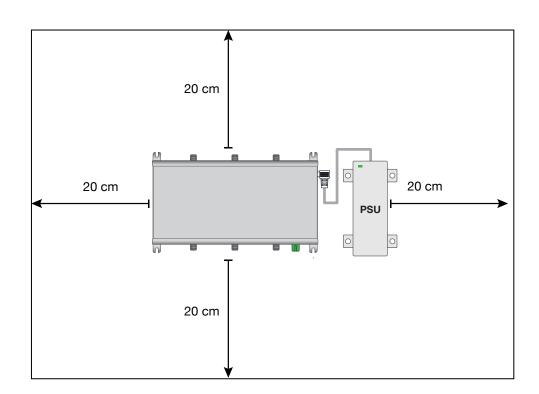


INVISIBLE LASER RADIATION DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS 1M LASER PRODUCTS

Place the apparatus and the power supplier in a dry and well-aired location
Install the unit on a vertical wall, or in a waterproof cabinet with a minimum IP55
rating, and fix it safely using the provided fixing plugs

Use only the power supplier YS25-1501250 provided with the amplifier.

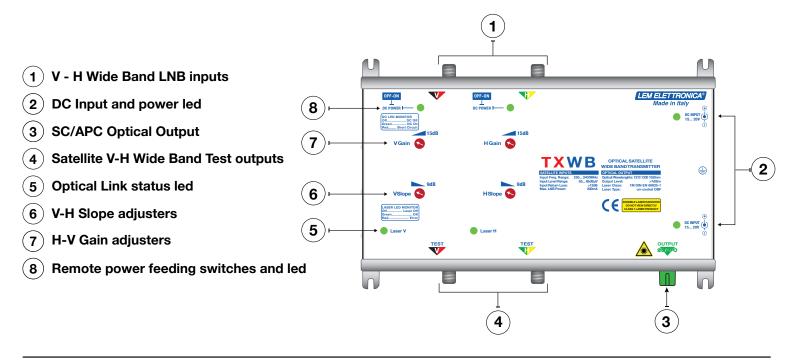
The use of not-original power suppliers determines the not-compliance of the product and can cause malfunctions and void the warranty



TXWB DESCRIPTION

Box Content

- 01 Optical transmitter TXWB
- 01 Power supplier YS25-1501250 (Input: 100-240Vac 0,5A Max / Output: 15Vdc 1,25A Max)
- 08 6x30mm fixing plugs with 4,5x40mm screws
- 01 User manual



LED MONITOR DESCRIPTION

DC Input Led

Off= No power at the DC input

Green= DC Power

Led Laser

Off= Laser inactive

Green= Laser active

Red= Laser malfunction

Remote power Led

Off= No power

Gree= Remote power feeding active

Red= Short circuit

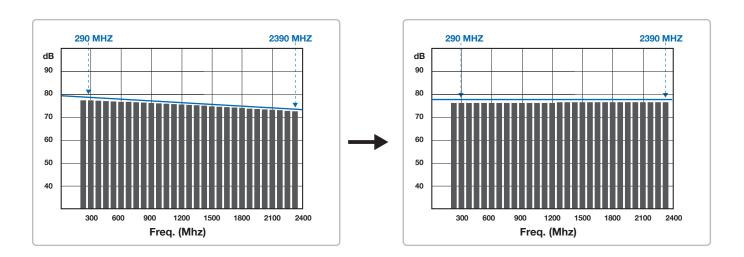
Satellite V e H Wide Band inputs adjustments.

Because of possible different levels of propagation due to weather conditions the **TXWB** Wide Band inputs are equipped with automatic Gain Control circuits. For perfect signal loss compensation and negative slope equalization of the coaxial cable between the LNB WideBand and the transmitter inputs no additional devices are required. The **TXWB** Satellite V and H inputs have built-in pre-amplifiers and tilt adjusters.

For optimal working range of the A.C.G. circuits please set-up the slope and signal level of each input first.

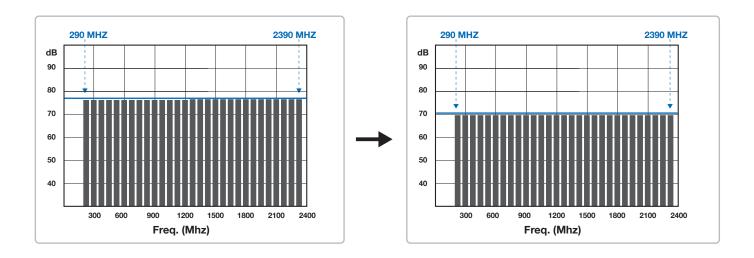
Tilt adjuster

- 1 Activate at least one V or H to LNB power feeding.
- 2_Connect a Satellite Signal Meter in spectrum mode to the **TEST V** port (Vertical polarization) of the **TXWB** transmitter. Rotate the **VSlope** adjuster until the spectrum appears flat.

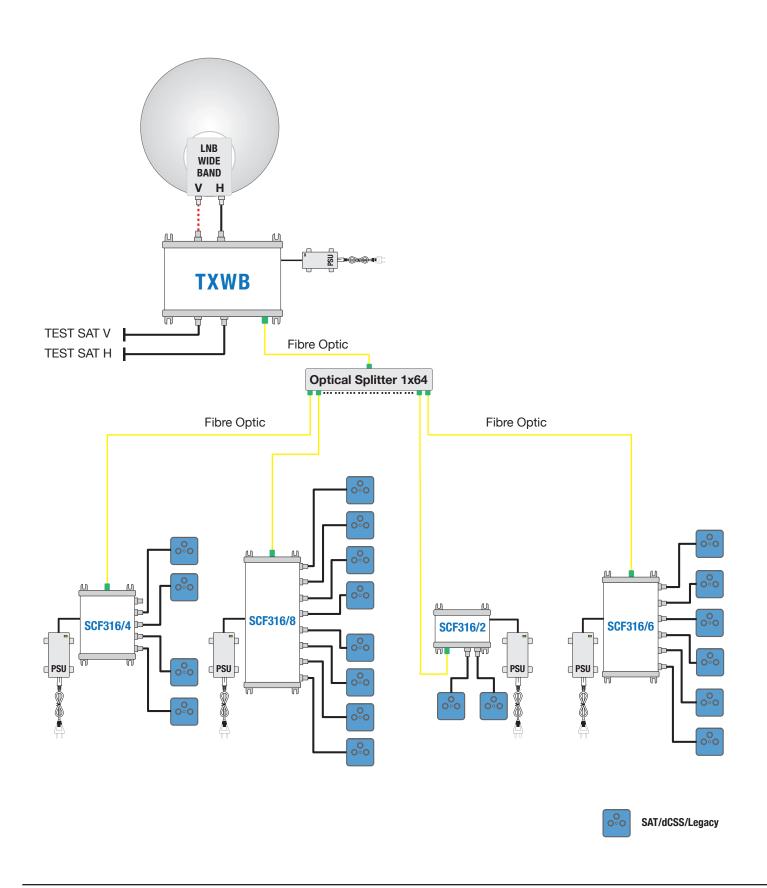


Input pre-amplifier gain adjustment

1_Select with the Satellite Signal Meter a transponder in measure mode from the and operate on the **VGain** adjuster to abtain a level comprised between 70 and 75 dBµV.



To set-up the H horizontal Wide Band input connect the Satellite Signal Meter to H Test port and repeat the same procedure applied for the step before operating on the H SLOPE and GAIN adjusters.



The headend **TXWB** converts and transmits over a single-mode fibre optical cable all the transponders of a satellite received from a Wide Band LNB. The optical signals are received by the **SCF316** series optical multiswitch and converted into RF ready for a single or multi-dwelling coaxial distribution. Each **SCF316** series output provides satellite signals supporting the legacy or SCR/dCSS standards (AUTO-SWITCH).

