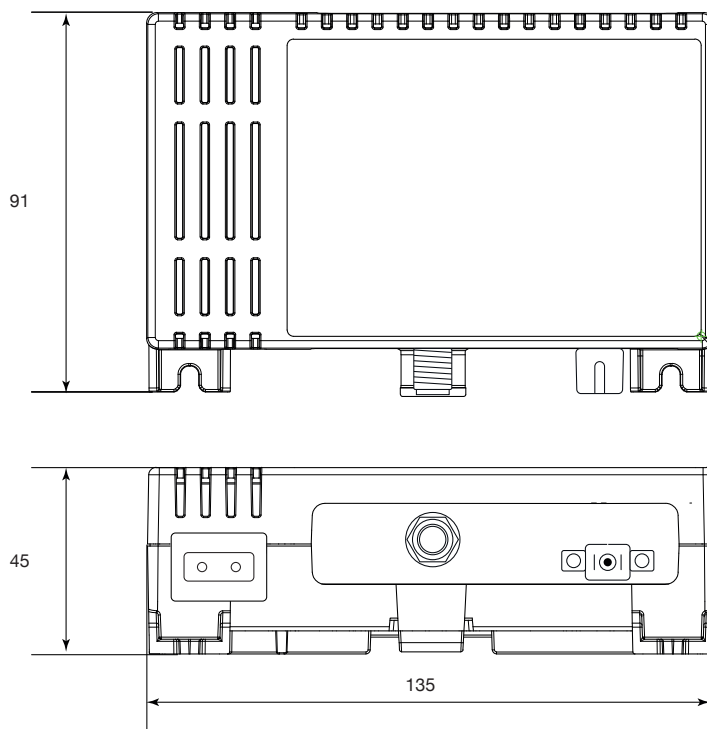


# TX-T

## Terrestrial feeds optical transmitter

- DIN rail or wall mounting
- Optical monitor Led
- Very compact size

Compact DFB low distortion laser optical transmitters for MATV signals distribution over a sole single-mode fibre optic cable.



Ready for  
**UHDTV**







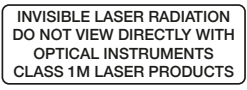


**MADE IN  
ITALY**

WARRANTY **5** YEARS

Rel. 1.0

OPTICAL TRANSMITTER		TX-T
RF INPUTS	n°	1
OPTICAL OUTPUT	n°	1
<b>OPTICAL</b>		
OUTPUT WAVELENGTH	nm	1550
LASER TYPE		UN-COOLED MULTI QUANTUM DFB
LASER CLASS		1M, EN 60825-1
OUTPUT POWER	dBm	>7
RETURN LOSS	dB	>40
OUTPUT CONNECTOR		SC/APC
<b>TV TERRESTRIAL</b>		
INPUT BANDWIDTH	MHz	80... 862
INPUT LEVEL FOR 32 MUX	dBµV	70
<b>OTHERS</b>		
DC INPUT VOLTAGE	V	230VAC 50/60HZ
MAX. POWER CONSUMPTION	W	2
SHORT-CIRCUIT PROTECTION		ALL INPUTS
DIMENSIONS	mm	135x91x45
OPERATING TEMPERATURE	°C	0... +50



<b>DESCRIPTION OF SYMBOLS AND ELECTRICAL SAFETY</b>	
	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 class II equipment safety requirements
	To avoid the risk of electric shock, do not open the equipment.
	Invisible Laser Radiation avoid direct exposure to beam
	Class 1M laser product. Do not watch directly with optical instruments
	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. Do not install the unit lying flat or on its top
10. Connect the power adapter cord to a detachable power supply socket
11. Unplug the apparatus during lightning storms or when unused for long time
12. Only use accessories specified by the manufacturer
13. Do not remove the cover without disconnecting from the mains first
14. Ambient temperature should not be lower than 0°C and higher than 50°C
15. Please allow air circulation around the apparatus



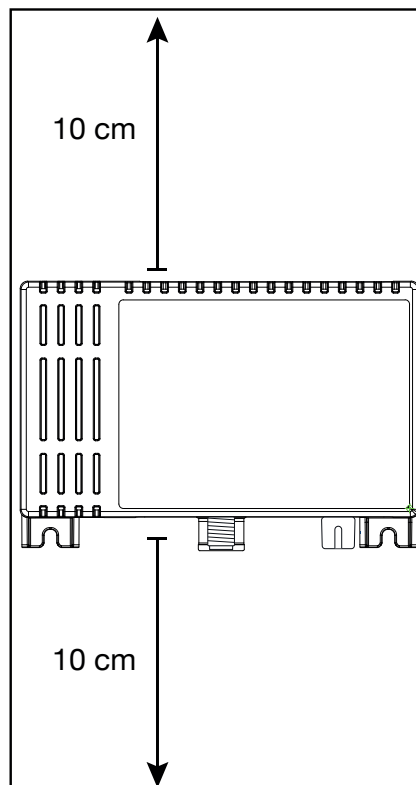
## Installation warnings



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

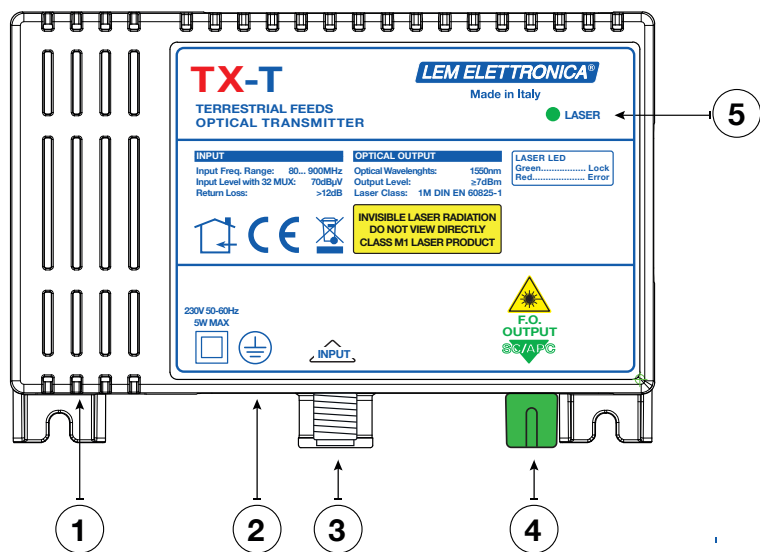
**Place the apparatus and the power supplier in a dry and well-aired location**

**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**



# DESCRIPTION TX-T

- ① Power input 230VAC
- ② Ground bonding
- ③ FM; DAB; DTT input
- ④ SC/APC Optical output
- ⑤ Laser status Led



## LED MONITOR DESCRIPTION

### Laser Led

Off= Laser inactive

Green= Laser active

Red= Laser malfunction

The optical transmitter **TX-T** must be used with **FCO-IF-T** or **FCO-IF-TC** optical receivers. For a correct transmitter / receivers set up please follow the tables below.

## TERRESTRIAL FEEDS

Number or Optical points	Optical Attenuation	TX-T Transmitter terrestrial input level (single MUX)	FCO-IF-T/ FCO-IF-TC max. Terrestrial output level (single MUX)
4	- 7	70 dB $\mu$ V	90 dB $\mu$ V
8	- 10	73 dB $\mu$ V	90 dB $\mu$ V
16	-13,5	76 dB $\mu$ V	90 dB $\mu$ V
32	- 17	82 dB $\mu$ V	90 dB $\mu$ V
64	- 21	87 dB $\mu$ V	86 dB $\mu$ V

### With 32 DVB-T/T2 MUX

Number or Optical points	Optical Attenuation	TX-T Transmitter terrestrial input level (single MUX)	FCO-IF-T/ FCO-IF-TC max. Terrestrial output level (single MUX)
4	- 7	73 dB $\mu$ V	93 dB $\mu$ V
8	- 10	76 dB $\mu$ V	93 dB $\mu$ V
16	- 13,5	79 dB $\mu$ V	93 dB $\mu$ V
32	- 17	85 dB $\mu$ V	93 dB $\mu$ V
64	- 21	90 dB $\mu$ V	90 dB $\mu$ V

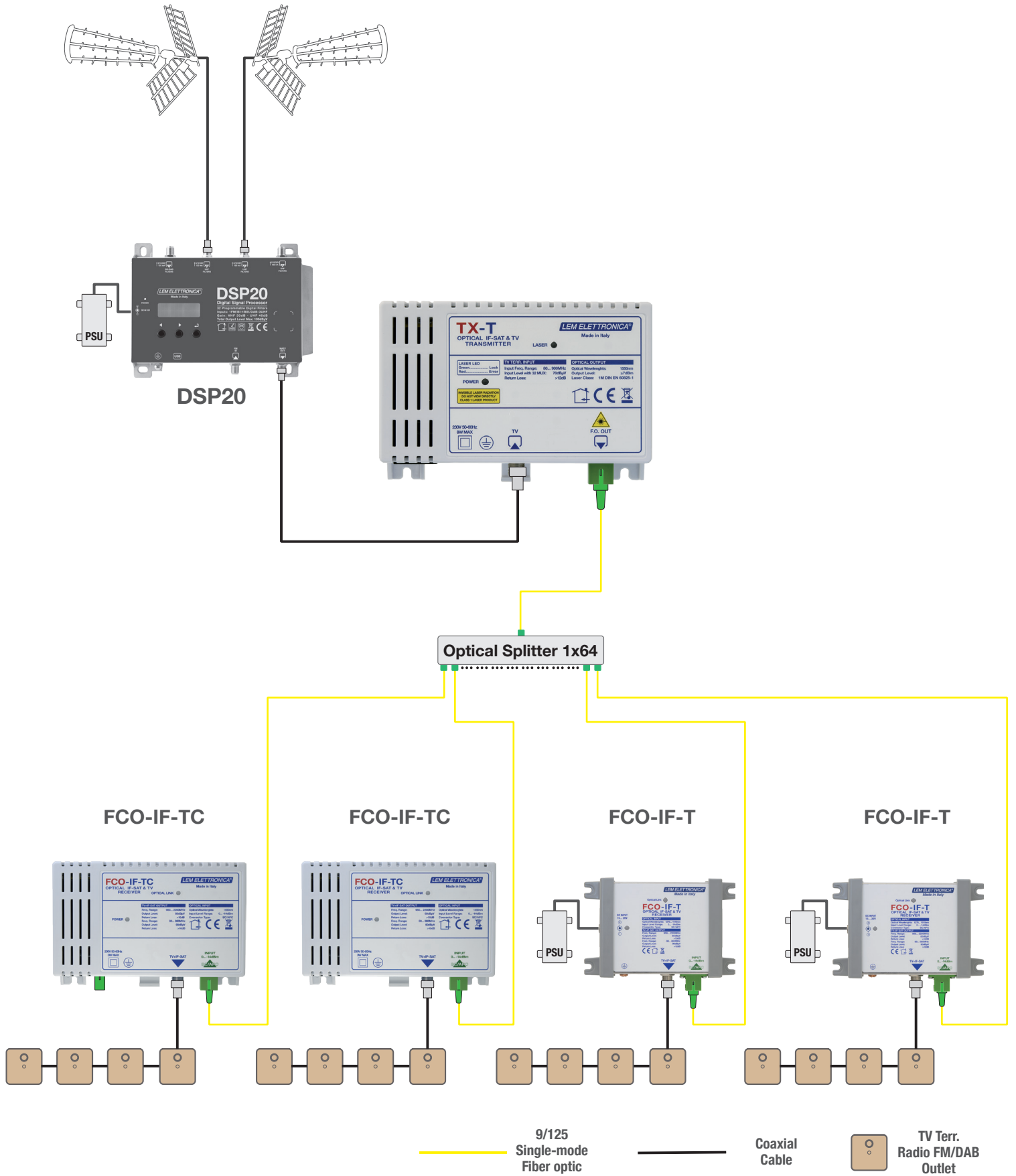
### With 16 DVB-T/T2 MUX

Number or Optical points	Optical Attenuation	TX-T Transmitter terrestrial input level (single MUX)	FCO-IF-T/ FCO-IF-TC max. Terrestrial output level (single MUX)
4	- 7	76 dB $\mu$ V	96 dB $\mu$ V
8	- 10	79 dB $\mu$ V	96 dB $\mu$ V
16	- 13,5	82 dB $\mu$ V	96 dB $\mu$ V
32	- 17	88 dB $\mu$ V	96 dB $\mu$ V
64	- 21	90 dB $\mu$ V	90 dB $\mu$ V

### With 8 DVB-T/T2 MUX



**FM and DAB signal level must be at least 10dB lower than the DTT signal**



**Distribution of terrestrial feed (DTT; FM; DAB) over a single-mode optical fibre PON.**

The headend **TX-IF-T** converts and transmits over a single-mode fibre optical cable the terrestrial feeds.

## Label with serial and tracking data

AA1000015019-X1020L

AA	100001	50	19	-X	10	20	L
└──┬──┘	└──┬──┬──┬──┬──┬──┘	└──┬──┘	└──┬──┘		└──┬──┘	└──┬──┘	
Model	Serial #	Manuf. Week	Manuf. Year		HW Rel.	FW Rel.	