

TXWBTe

Fibre Optic Transmitter



Multi-wavelength system



Wide Band LNB inputs



SAT inputs with A.G.C.



Supplied with power supply



Three-wavelength optical transmitter for the distribution of an entire satellite orbital position, digital terrestrial TV, and FM and DAB radio services over a single single-mode optical fiber.

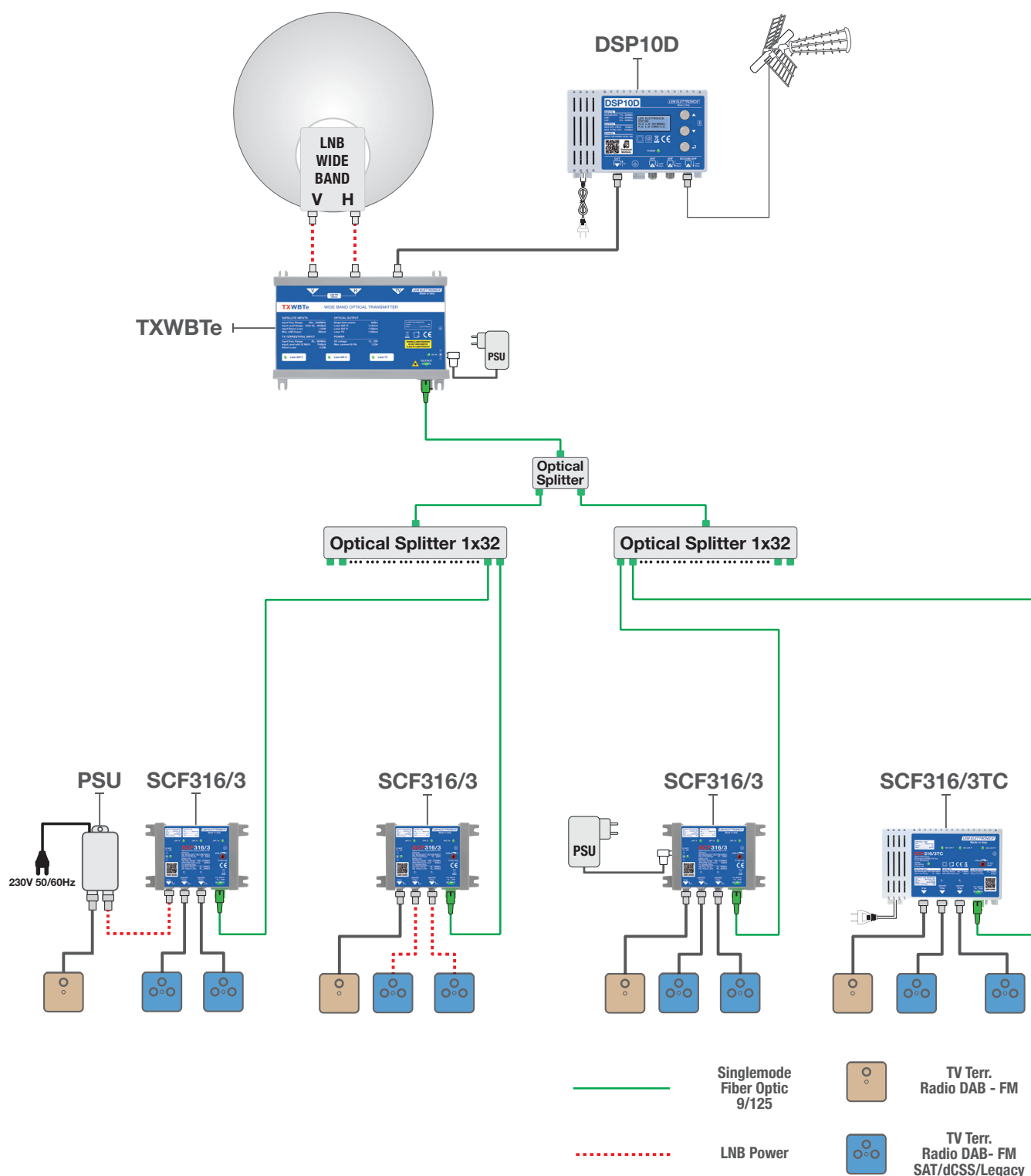
This Optical Transmitter is built with low-distortion, high-linearity DFB lasers.

Ready for
UHDTV

5
WARRANTY YEARS

MODEL		TXWBTe
RF INPUTS	n°	3
OPTICAL OUTPUT	n°	1
OPTICAL		
OUTPUT WAVELENGTH	nm	1310 - 1330 - 1550
LASER TYPE		UN-COOLED MULTI QUANTUM DFB
LASER CLASS		1M, EN 60825-1
OUTPUT POWER	dBm	6
OUTPUT CONNECTOR		SC/APC
RETURN LOSS	dB	>40
SATELLITE		
INPUTS BANDWIDTH (for Wide Band LNB)	MHz	250... 2.400
INPUT RANGE LEVEL	dBμV	70... 90
A.C.G. RANGE	dB	20
INPUT RETURN LOSS	dB	>12
LNB REMOTE FEEDING		4,50W (15VDC/300mA)
TV TERRESTRIAL		
INPUT BANDWIDTH	MHz	80... 900
INPUT LEVEL FOR 32 MUX	dBμV	85... 90
OTHERS		
DC INPUT VOLTAGE	V	12... 20
MAX. POWER CONSUMPTION W/O EXTERNAL LOAD	W	2,8
MAX. POWER CONSUMPTION WITH EXTERNAL LOAD	W	7,3
SHORT-CIRCUIT PROTECTION		ONLY SAT INPUTS
DIMENSIONS	mm	146x200x38
OPERATING TEMPERATURE	°C	0... +50

Connection Diagram



Distribution of signals from a single satellite and terrestrial TV over a single optical fiber using SCF316 series optical multiswitches.

The signals transmitted via satellite from a single orbital position are received by a Wideband LNB, while terrestrial signals (DTT, FM, DAB) are filtered and equalized by a **DSP10D** programmable headend.

The **TXWBTe** transmitter converts these signals into optical format, enabling distribution over a single single-mode optical fiber.

Signal reception is handled by **SCF316** series multiswitches, which convert the optical signal back to electrical, making it available again over coaxial cable.