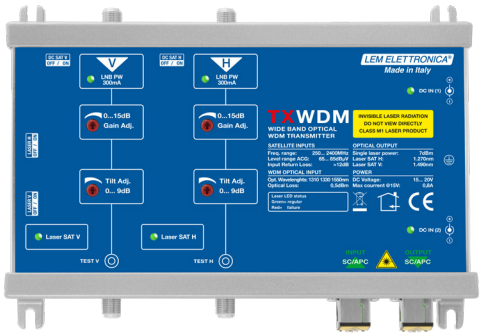
LEM ELETTRONICA®

TXWDM

Fibre Optic transmitter



- ***V & H inputs for wide band LNB***
- ***Built-in loopthrough CWDM***
- ***LNB power feeding***
- ***On/Off switch and monitor LED for each Laser***
- ***Test point for each input***
- ***Adjustable gain and slope for Satellite inputs***
- ***Double DC input for redundant power supply***
- ***Supplied with power supply***

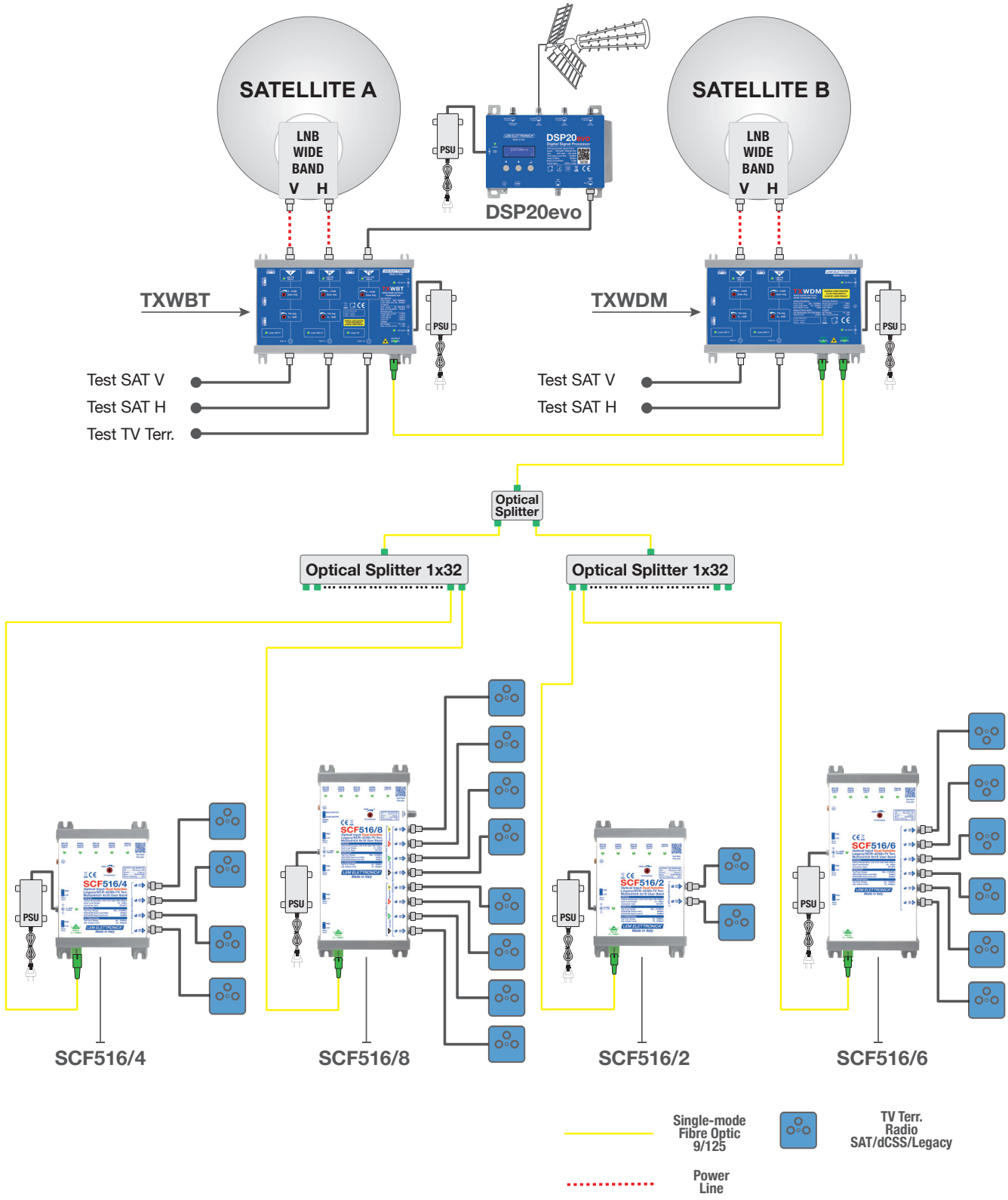
Two wavelength optical transmitter suitable to multiplex the wavelengths of the **TXWBT** or **TXWB** transmitter. To achieve distributions of two satellite orbital positions over a sole single-mode optical Fibre.

Ready for UHDTV

5 YEARS WARRANTY

MODEL		TXWDM
RF INPUTS	n°	2
RF TEST OUTPUTS	n°	2
OPTICAL OUTPUT	n°	1
OPTICAL LOOP THROUGH (for TXWBT or TXWB)	n°	1
OPTICAL		
OUTPUT WAVELENGTH	nm	1.270 - 1.490
LASER TYPE		UN-COOLED MULTI QUANTUM DFB
LASER CLASS		1M, EN 60825-1
OUTPUT POWER	dBm	8
INPUT WAVELENGTHS LOOP THROUGH	nm	1310 - 1330 - 1550
INPUT CONNECTOR		SC/APC
OUTPUT CONNECTOR		SC/APC
SATELLITE		
INPUTS BANDWIDTH (for Wide Band LNB)	MHz	250... 2.400
INPUT RANGE LEVEL (ADJUSTABLE)	dBµV	70... 90
A.C.G. RANGE	dB	20
SLOPE ADJUSTER RANGE	dB	0... 9
RETURN LOSS	dB	>12
LNB REMOTE FEEDING		5,25W (15VDC/350mA)
OTHERS		
DC INPUT VOLTAGE	V	12... 20
MAX. POWER CONSUMPTION WITHOUT EXTERNAL LOAD	W	3
MAX. POWER CONSUMPTION WITH EXTERNAL LOAD	W	9
SHORT-CIRCUIT PROTECTION		ALL INPUTS
DIMENSIONS	mm	146x200x38
OPERATING TEMPERATURE	°C	0... +50

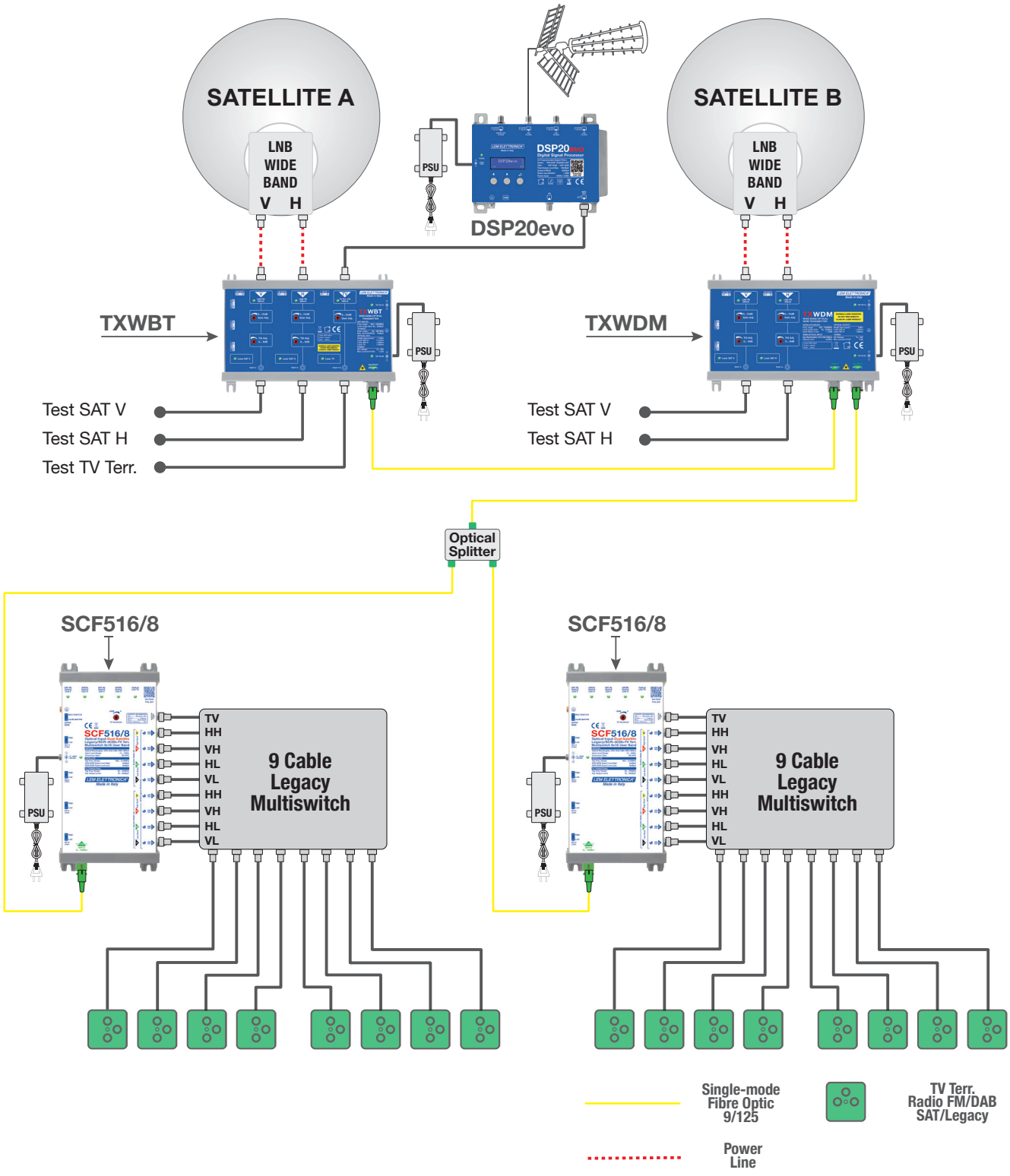
Connection Diagram



Distribution of two satellite and terrestrial feed (DTT, FM, DAB) over a single-mode optical fibre

The headends **TXWBT** and **TXWDM** convert and transmit over a single-mode fibre optical cable the terrestrial feeds and all the transponders of two satellite received from two Wide Band LNB. The optical multiswitches of the SCF516 series receive and converted into RF to be ready for a single or multi-dwelling coaxial distribution. Each **SCF516** series multiswitch output provides terrestrial and satellite signals and fully supports Diseqc controls in legacy and SCR/dCSS standards.

Connection Diagram



SCF516/8 set to Distribution of two satellites and terrestrial feed (DTT; FM; DAB) over a single-mode optical fibre to a standard dual nine wire multiswitch for further distribution via coaxial cable.

The headends **TXWBT** and **TXWDM** convert transmit over a single-mode fibre optical cable the terrestrial feeds and the transponders of two satellites received from two Wide Band LNB. The optical signals are received by the optical converter **SCF516/8** set to be a virtual dual LNB Quattro. The dual Quattro and the terrestrial outputs can feed any nine wire multiswitch.

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