

# SCF316/4

## Single Satellite Fibre Optic Multiswitches 4+1 outputs

- ✓ 4 x Legacy/dSCR-DTT/DAB/FM outputs
- ✓ 1 x terrestrial output
- ✓ Optical link monitor Led
- ✓ A.G.C. for each output
- ✓ Level adjuster for TV terrestrial signal
- ✓ Supplied with power supply

Multi-output dSCR optical converter for distribution of a one satellite and terrestrial (TV/FM/DAB) signals over a single single-mode optical fibre.

This model can be configured to emulate the operation of an LNB Quattro VL-HL/VH-HH with separate terrestrial TV output.

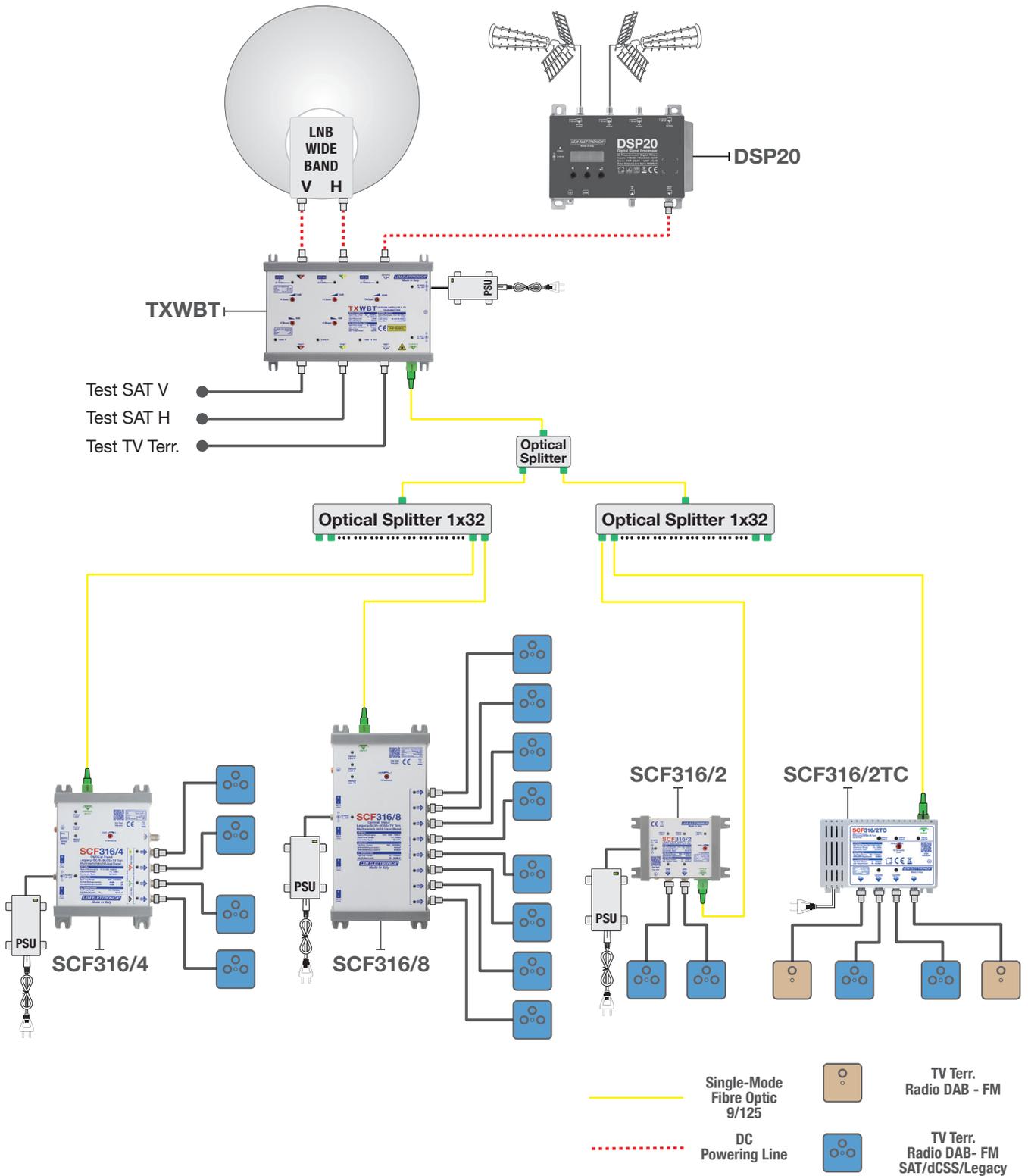


Ready for  
**UHDTV**

**5**  
WARRANTY YEARS

| MODEL                                   |      | SCF316/4   |
|---|------|--|
| OPTICAL INPUT                           |      | 1  |
| OUTPUTS (TERRESTRIAL+SATELLITE)         |      | 4  |
| TERRESTRIAL ONLY OUTPUTS                |      | 1  |
| <b>OPTICAL</b>                          |      |  |
| OPERATION WAVELENGTH                    | nm   | 1310 - 1330 - 1550                                     |
| INPUT POWER RANGE                       | dBm  | -14... 0   |
| INPUT CONNECTOR TYPE                    |      | SC/APC   |
| RETURN LOSS                             | dB   | ≥40  |
| <b>SATELLITE</b>                        |      |  |
| OUTPUT BANDWIDTH                        | MHz  | 950... 2150  |
| SCR/dCSS OUTPUT LEVEL                   | dBμV | 85 Low / 94 High                                       |
| LEGACY OUTPUT LEVEL                     | dBμV | 75 Low / 80 High                                       |
| SATELLITE CONTROL STANDARDS             |      | Universal LNB Voltage & Tone / DiSEqC 1.0 / DiSEqC 2.0 |
| SSCR/dCSS/dSCR PROTOCOLS                |      | EN50494 / EN50607 / SKY UK                             |
| AVAILABLE USER BAND FREQUENCY PLANS     |      | SKY ITALIA - SKY UK / DSTV SOUTH AFRICA / POLSAT       |
| <b>TV TERRESTRIAL / FM / DAB</b>        |      |  |
| OUTPUT BANDWIDTH                        | MHz  | 40... 790  |
| SEPARATE OUTPUTS MAXIMUM LEVEL          | dBμV | 90   |
| DIPLEXED OUTPUT MAXIMUM LEVEL           | dBμV | 85   |
| OUTPUT LEVEL ADJUSTABLE RANGE           | dB   | 0... -20   |
| <b>OTHERS</b>                           |      |  |
| ISOLATION BETWEEN SATELLITE/TERRESTRIAL | dB   | ≥ 40   |
| ISOLATION V / H                         | dB   | > 30   |
| OUTPUT RETURN LOSS                      | dB   | > 12   |
| DC INPUT VOLTAGE RANGE                  | V    | 12... 20   |
| MAXIMUM CONSUMPTION                     | W    | 11   |
| OPERATING TEMPERATURE                   | °C   | 0... 50  |
| DIMENSIONS                              | mm   | 172x118x38   |

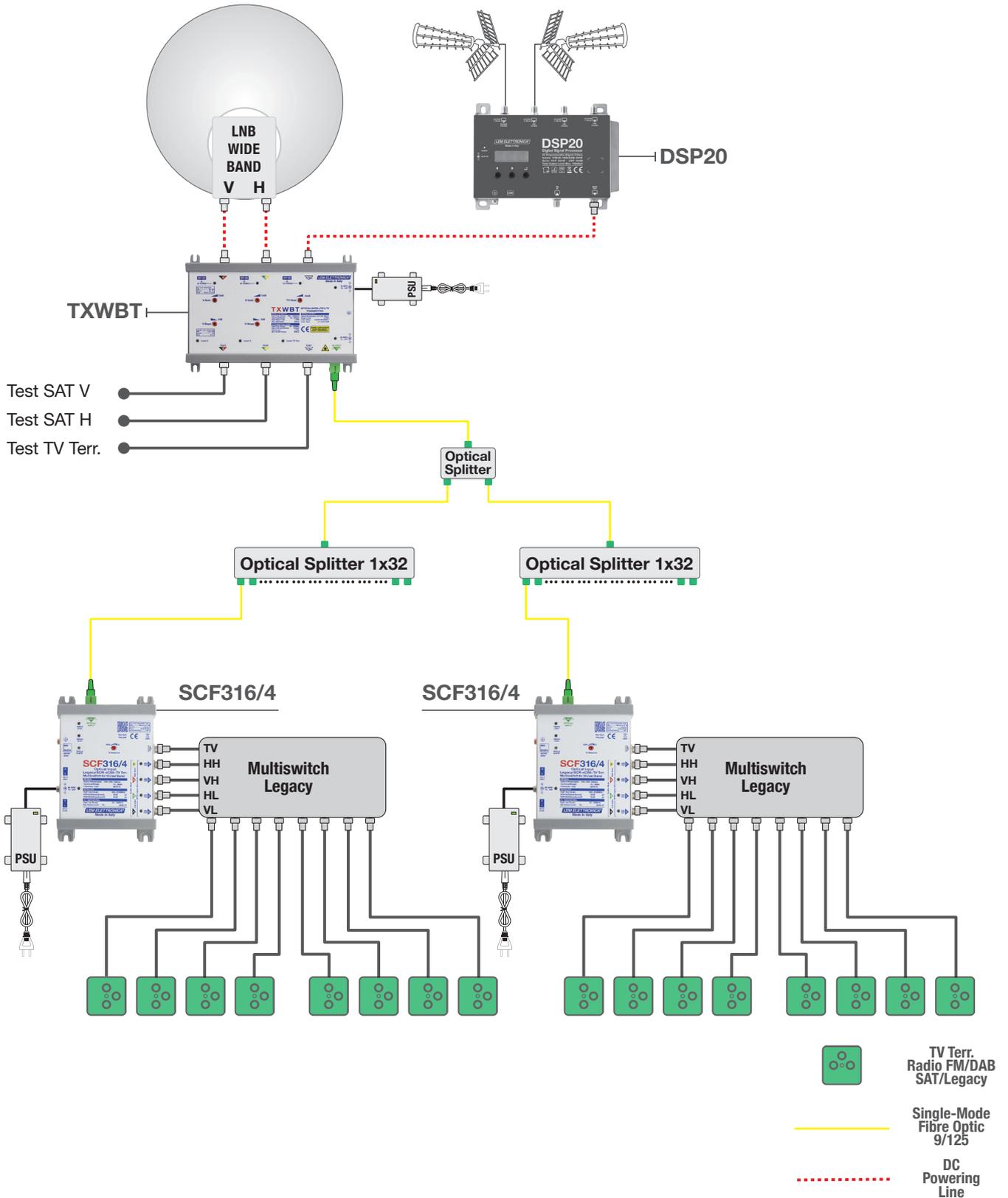
# Connection Diagram



## Distribution of a satellite and terrestrial feed (DTT; FM; DAB) over a single mode optical fibre

The **TXWB1** headend converts and transmits over a single-mode fibre optical cable the terrestrial feeds and the transponders of a satellite received from a Wide Band LNB. Each **SCF316** series optical converter output provides terrestrial and satellite signals supporting the legacy or dSCR standards (AUTO-SWITCH).

# Connection Diagram



**Distribution of one satellite and terrestrial feed (DTT; FM; DAB) over a single-mode optical fibre to standard five wire multiswitch.**

The **TXWBT** headend converts and transmits over a single-mode fibre optical cable the terrestrial feeds and the transponders of a satellite. The optical signals are received by the optical converter **SCF316/4** set to be a virtual LNB Quattro. The outputs VL-HL/VH-HH and the terrestrial output can feed any five input multiswitch.