Televes®

# Overlight dCSS Optical Receiver with 4 dCSS/Legacy outputs+Terr. FM/DAB/UHF/SAT

## Enhanced electronics and optical engineering to light up your TV

This complete optical Wideband satellite and terrestrial receiver captures the TV optical signal on a single fiber (1200...1600nm) and restores the original terrestrial and satellite TV signals, providing dCSS/Legacy services and terrestrial through its 4 RF outputs, which makes it compatible with any new or existing set top boxes.

Thanks to its optimized electronics and low losses, it is possible to reduce the number of amplifiers required and simplify deployment in collective installations, while preserving the signal quality throughout the process. Furthermore, it is fully indicated for use in GPON installations, and it perfectly adapts to dCSS applications.

This device is part of the Overlight system, that distributes satellite and terrestrial signals to multiple users through a single optical fiber.

| | |
|---|---|
| **Ref.** | 237631 |
| **Logical ref.** | OLR4N |
| **EAN13** | 8424450319253 |

## Packaging info

| | |
|---|---|
| **Box** | 1 pcs. |

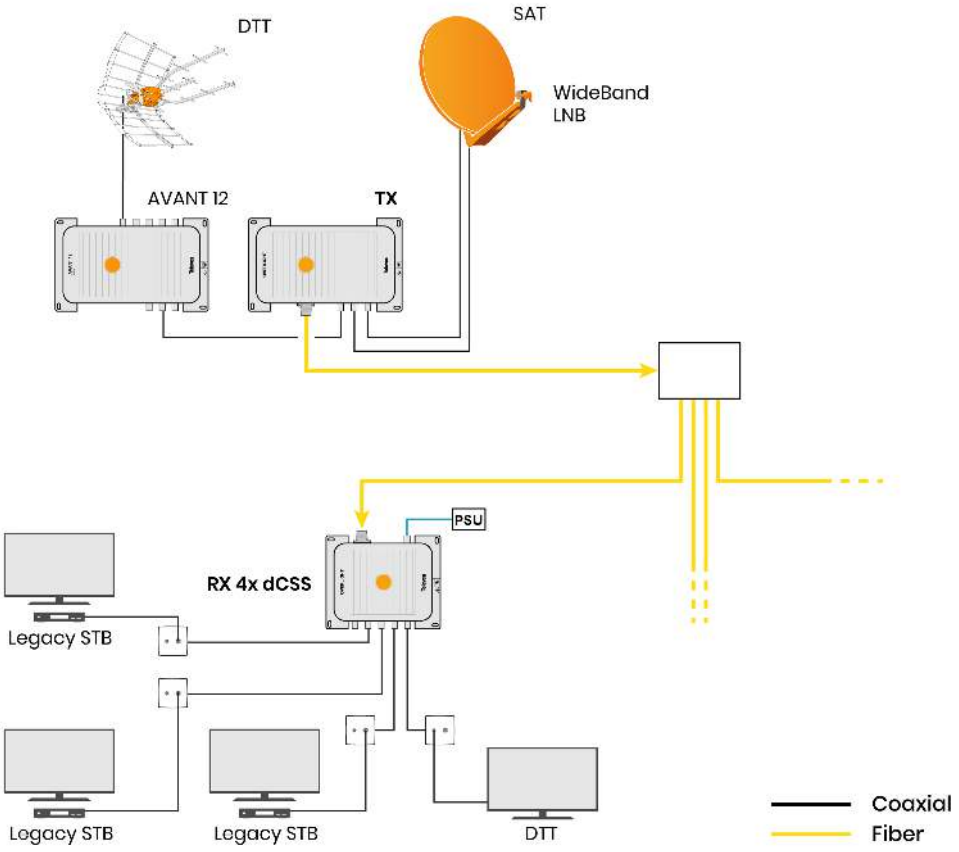
## Physical data

| | |
|---|---|
| **Net weight** | 840.00 g |
| **Gross volume** | 2.80 dm³ |
| **Gross weight** | 960.00 g |
| **Width** | 149.00 mm |
| **Height** | 130.00 mm |
| **Depth** | 43.00 mm |
| **Main product weight** | 670.00 g |

## Highlights

- Very compact in dimensions and weight
- Compatible with GPON deployments
- Fiber optic distribution with low losses and immunity to interference
- Robust, high-screening chassis made of Zamak for interference protection
- Can be wall-mounted using screws
- Includes external power supply
- 100% European design, quality, and manufacturing

## Application example


DTT
SAT
WideBand
LNB
AVANT 12
TX
PSU
RX 4x dCSS
Legacy STB
Legacy STB
Legacy STB
DTT
Coaxial
Fiber

Televes®

## **Technical specifications** : Ref. 237631

| | | | | |
|---|---|---|---|---|
| **Number of outputs** | | 4 | | |
| **TERR number of outputs** | | 4 | | |
| **dCSS number of outputs** | | 4 | | |
| **dCSS standard** | | Germany (EN50494/EN50607) | | |
| **Legacy number of outputs** | | 4 | | |
| **Inputs/Bands** | | TERR | Legacy | dCSS |
| **Output frequency range** | MHz | 87 ... 694 | 950 ... 2150 | -- |
| **Output level** | dBmV | 9 ... 13 | 4 ... 11 | 20 |
| **Input wavelength** | nm | 1200 ... 1600 | | |
| **Optical input power** | dBm | -13 ... -6 | | |
| **Optical return losses** | dB | > 40 | | |
| **Optical receiving device** | | InGaAs PIN photodiode | | |
| **Optical connectors** | | SC/APC | | |
| **RF connectors** | | "F" female | | |
| **Impedance** | Ω | 75 | | |
| **Powering** | Vdc | 12 ... 18 | | |
| **Max current consumption (@12V)** | mA | 790 | | |
| **Max current consumption (@18V)** | mA | 560 | | |
| **PSU input voltage** | Vac | 100 ... 240 | | |
| **Max PSU current input** | mA | 600 | | |
| **PSU output voltage** | Vdc | 12 | | |
| **Max PSU output current** | A | 1.5 | | |
| **PSU protection index** | | 23 | | |
| **PSU operating temperature** | °F | 23 ... 113 | | |
| **Operating temperature** | °F | 23 ... 113 | | |

These measurements are conditioned to the use of an Overlight transmitter