



## Overlight WideBand Optical Receiver with 1 SAT+TERR input and 1 WB output + 1 TERR output, OLC integrated

Enhanced electronics and optical engineering to light up your TV

Optical Wideband satellite and terrestrial receiver with OLC technology. Designed to capture the TV optical signal from 1 satellite on a single fiber (1200...1600 nm) and restore the original terrestrial and satellite TV signals, providing 1 Wideband output and 1 terrestrial output.

Thanks to its optimized electronics and low losses, it allows to reduce the number of amplifiers required and simplifies deployment in the design of collective installations, preserving the signal quality throughout the process.

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

<b>Ref.</b>	237545
<b>Logical ref.</b>	OLRWB1S
<b>EAN13</b>	8424450298527

## Packing

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<b>Box</b>	1 pcs.
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## Physical data

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<b>Net weight</b>	381.00 g
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<b>Gross weight</b>	502.00 g
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<b>Width</b>	138.00 mm
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<b>Height</b>	125.00 mm
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<b>Depth</b>	45.00 mm
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<b>Main product weight</b>	381.00 g
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## Highlights

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- Very compact in dimensions and weight (137x120x30 mm)
- Low losses
- Built-in OLC (Optical Level Control) system: automatically adjusts the parameters to achieve a constant output level, irrespective of the channel load
- Optimized electronic behavior
- 100% european design, quality, and manufacturing
- SC/APC optical connector
- F-type RF connectors
- High-screening Zamak chassis
- Can be wall-mounted using screws
- LED indicator displaying signal status
- Remote power feeding using V-H or an external PSU
- Low power consumption

## Discover

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## WideBand technology

WideBand (also known as FullBand) refers to broadband transmission technology that uses a wide range of frequencies. In WideBand TV systems, a substantial portion or the whole of the frequency spectrum is available to users. It can be used in fiber deployments where long cable runs are demanded, or coaxial scenarios in combination with multiswitches adapted to this technology.

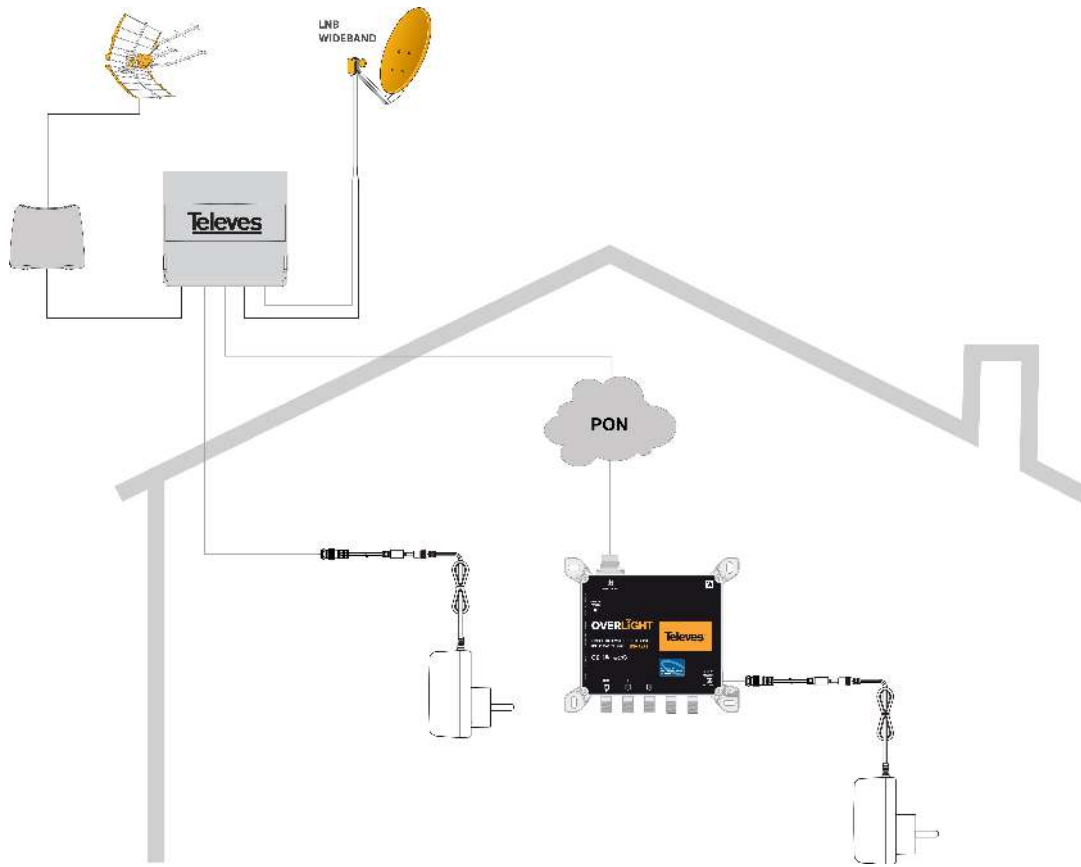
In WideBand technology, an LNB captures a complete satellite signal and distributes it through 2 universal outputs (vertical -V- and horizontal -H-), each of them with the combination of high (H) and low (L) bands, in a frequency range between 290 and 2340 MHz.

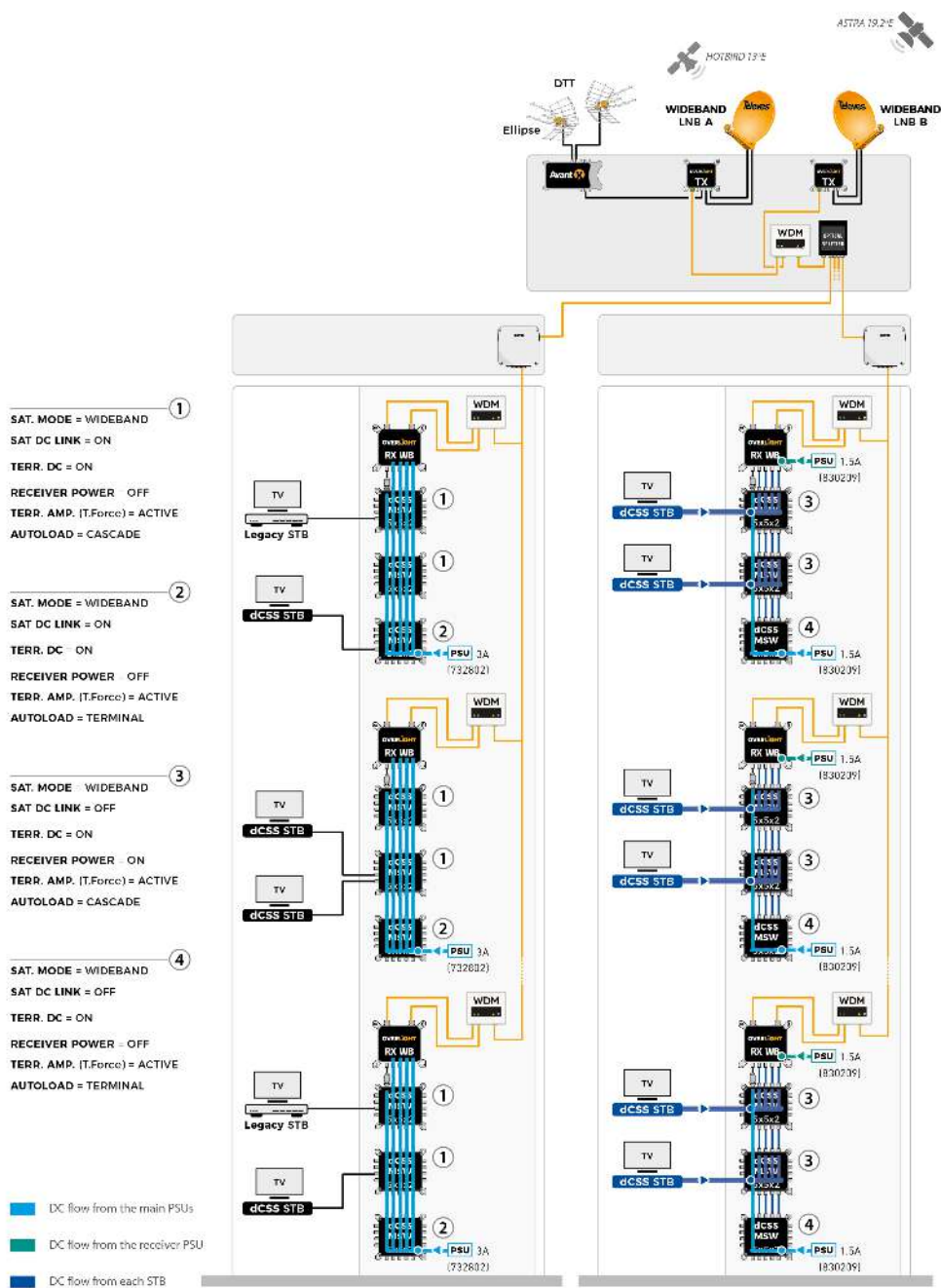
**Despite the fact that Quattro technology is the most widely deployed technology in TV systems nowadays, WideBand technology brings significant advantages to the installation:**

- **Simpler, faster and cleaner installation:** In WideBand technology the number of coaxial cables connecting the LNB to the multiswitches is half as in traditional Quattro deployments, so the installation is done quicker and easier. The installation will also be tidier with fewer cables.
- **Wider bandwidth than other technologies:** WideBand channels can carry more information thanks to their wide bandwidth (290-2340MHz). This powerful feature allows a greater number of services to be delivered to the end users of the installation.
- **Reusable deployment:** WideBand technology allows signal distribution by reusing a Quattro installation. It can be distributed through the old 4 cables coming down from the roof to capture signals from up to 2 satellites, changing only LNBs and MSWs to be WideBand compatible.

## Application example

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## Technical specifications : Ref. 237545

Number of outputs TERR				1
Number of outputs V				1
Number of outputs H				1
Inputs/Bands		TERR	V	H
Output level	dBµV	78 ... 86	66 ... 74	66 ... 74
Output frequency range	MHz	47 ... 694	290 ... 2340	290 ... 2340
Impedance	Ω		75	
Wavelength	nm		1200 ... 1600	
Optical return losses Min	dB		40	
Optical device			InGaAs pin photodiode	
Optical input level	dBm		-11 ... -1	
RF connectors			"F" female	
Optical connectors			SC/APC	
Powering	Vdc		12 ... 18	
Max current consumption (@12V)	mA		370	
Max current (@18V)	mA		246	
Operating temperature	°C		-5 ... 45	
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	°C		-5 ... 45	

These measurements are conditioned to the use of an Overlight transmitter