



## Indoor Overlight optical transmitter FM/DAB/UHF/SAT, CWDM 1550 nm 9 dBm

Enhanced electronics and optical engineering to light up your TV

Device capable of converting satellite signals from a WideBand LNB and terrestrial band into an optical signal, to be transmitted via fiber to up to 64 users. It operates in the 1550nm window, allowing its signal to be multiplexed with other CWDM transmitters to deliver up to four full satellite bands and DTT over a single optical fiber. It is also fully compatible with GPON installations.

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 signal quality throughout the process.

It includes a low-noise amplifier and equalizer on each satellite input, allowing compensation for coaxial cable losses when the antenna is located far away. With integrated Bluetooth® connectivity, you can easily configure these settings and monitor the device from a smartphone or tablet using the ASuite app.

|              |            |
|--------------|------------|
| Ref.         | 237604     |
| Logical ref. | OLT1550KBT |

EAN13

8424450327944

## Packaging info

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

## Physical data

|                     |            |
|---------------------|------------|
| Net weight          | 888.00 g   |
| Gross volume        | 3.30 dm³   |
| Gross weight        | 1,046.00 g |
| Width               | 201.00 mm  |
| Height              | 122.00 mm  |
| Depth               | 41.00 mm   |
| Main product weight | 830.00 g   |

## Highlights

- Optimal performance with distant antennas thanks to the **integrated WideBand amplifier and equalizer**
- Convenient and simple **wireless configuration** from a smartphone or tablet using the ASuite app
- High output level enabling **passive distribution to 64 users** or up to 512 with optical amplification
- **Compatible with GPON deployments**
- **Eliminates the need for prior satellite amplifiers** by offering a gain of 18 dB
- **Optimized electro-optical conversion** even with unbalanced signals, thanks to the configurable WideBand equalizer up to 12 dB
- Fiber optic distribution with **low losses and immunity to interference**
- **Remote powering** via terrestrial and satellite input for LNB, mast amplifier or intelligent antenna
- **Robust, high-screening chassis** made of Zamak for interference protection
- **Integrated power supply** with plug included
- **100% European design, quality, and manufacturing**

## 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.

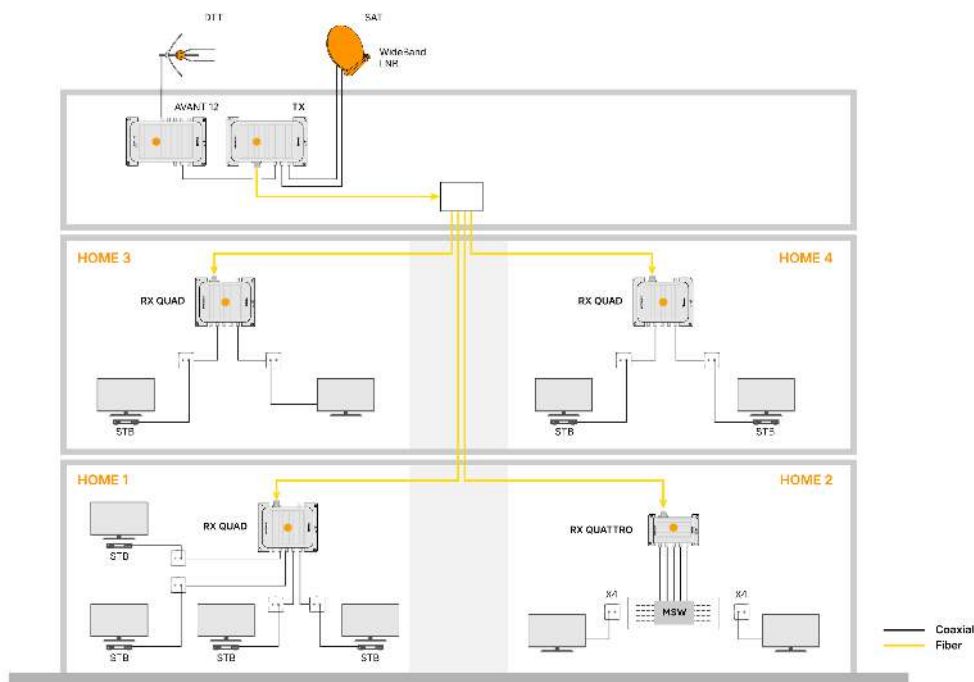
In WideBand technology, an LNB captures a complete satellite signal and distributes it through 2 universal outputs (vertical -V- and horizontal -H-), each of them with the combination of high (H) and low (L) bands, in a frequency range between 290 and 2340 MHz.

**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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## Functionalities



### Signal monitoring at input and output

The optical output includes a power indicator that allows easy verification of the laser's correct operation, as well as a shutdown switch for safely handling the optical connector.

On the RF inputs, the signal level is continuously monitored to ensure it remains within the appropriate range, streamlining the

identification and resolution of issues.



## Full control of equalization and amplification

Features individual amplification and equalization control for each satellite input, allowing the amplifier to be switched on or off according to the installation's needs.

Thanks to the adjustable equalizer, input level mismatches across frequencies can be precisely compensated, ensuring maximum performance and signal quality in the distribution system.

## Technical specifications : Ref. 237604

| Inputs                         |          | TERR       | V             | H            |
|--------------------------------|----------|------------|---------------|--------------|
| Frequency range                | MHz      | 47 ... 694 | 290 ... 2340  | 290 ... 2340 |
| Input level                    | dBmV     | 23 ... 35  | 10 ... 25     | 10 ... 25    |
| Equalizator                    | dB       | --         | 0 ... 12      | 0 ... 12     |
| Gain                           | dB       | --         | 18            | 18           |
| Number of MUX for Input level  |          | 24         | 52            | 52           |
| MUX bandwidth for Input level  | MHz      | 8          | 40            | 40           |
| Powering per inputs            | Vdc      | 12         | 12            | --           |
| Max. current pass              | mA       | 500        | 500           | --           |
| Max. current pass total inputs | mA       |            | 720           |              |
| Wavelength                     | nm       |            | 1550          |              |
| Optical output power           | dBmW     |            | 9             |              |
| Transmitter type               |          |            | MQW-DFB       |              |
| Optical connectors             |          |            | SC/APC        |              |
| RF connectors                  |          |            | "F" female    |              |
| Impedance                      | $\Omega$ |            | 75            |              |
| Powering                       | Vac      |            | 110 ... 230   |              |
| Mains frequency                |          |            | 50 Hz / 60 Hz |              |
| Current consumption            | mA       |            | < 320         |              |
| Max. power consumption         | W        |            | 18            |              |
| Operating temperature          | °F       |            | 23 ... 113    |              |