Indoor Overlight optical transmitter FM/DAB/UHF/SAT, CWDM 1310 nm 10 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 without amplification. It operates in the 1310 nm 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.

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.	237603
Logical ref.	OLT1310KBT
EAN13	8424450327937

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 amplification
- **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

WideBand technology

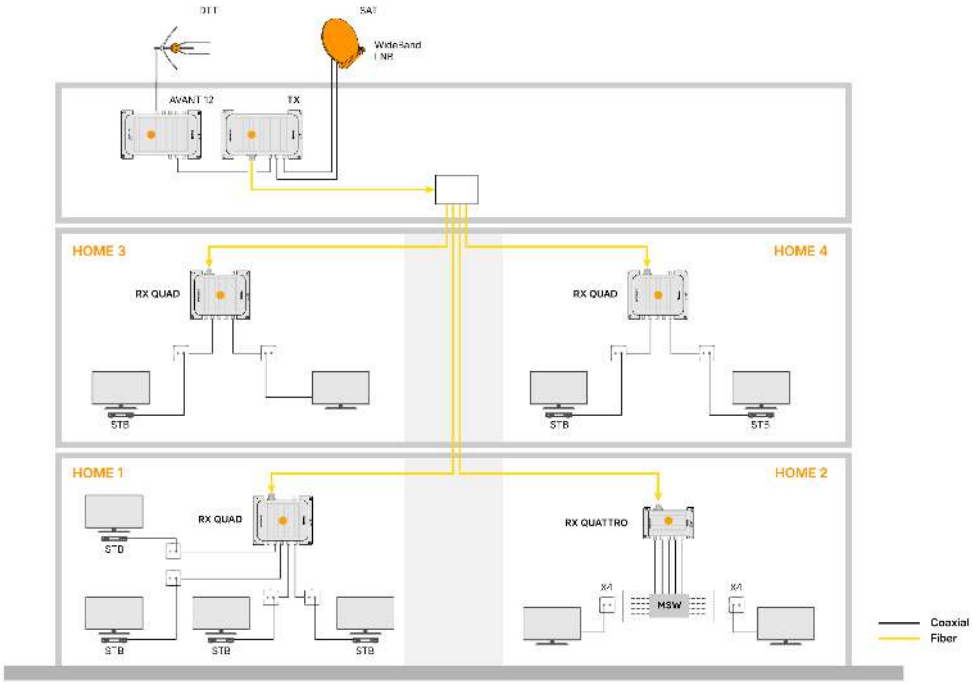
WideBand (also known as FullBand) refers to broadband transmission technology that uses a wide range of frequencies. In WideBand TV systems, a substantial portion or the whole of the frequency spectrum is available to users. It can be used in fiber deployments where long cable runs are demanded, or coaxial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



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. 237603

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	1310		
Optical output power	dBmW	10		
Transmitter type		MQW-DFB		
Optical connectors		SC/APC		
RF connectors		"F" female		
Impedance	Ω	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		