OVERLIGHT

Enhanced electronics and optical engineering to light up your TV

SATELLITE AND TERRESTRIAL TV DISTRIBUTION OVER FIBER OPTICS

With the Overlight series you will get an integrated TV installation with all the services through a single optical fiber, **reducing the number of antennas and devices in the installation without losing the quality of the terrestrial and satellite TV signal**.

Thanks to the low losses of the fiber and the high distribution rate, it is possible to provide TV services to housing estates, blocks of apartments, hotels and campsites, residences, and other FTTX solutions.

- SAT / TERR — Satellite and Terrestrial Distribution
- Optimized electronic design
- GPON compatible
- MADE IN TELEVES — 100% Made in Televes

OVERLIGHT

MADE IN Televes

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Why choose Overlight?

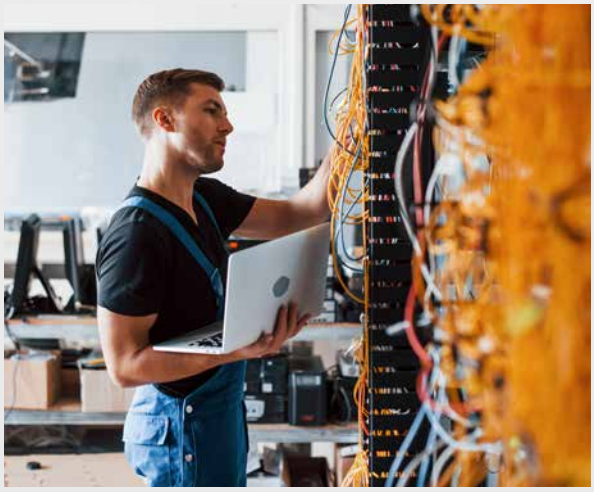
- The Overlight series **is suitable for all types of FTTx installations**,such as residential areas, leisure and entertainment areas, hotels, campgrounds and residences.
- With a **high output level and a splitting ratio of 64 users**, it is capable of reaching large collective installations.
- It allows the option of **optical amplification** to increase the number of users while **maintaining signal quality**.
- Satellite and terrestrial distribution is carried out through **a single optical fiber, which reduces installation costs and materials**.
- Optimized electronic performance resulting in **low loss and a balanced end-to-end TV signal** for all DTT and satellite services.
- **Compatible with GPON deployments**, to incorporate TV services in the Hospitality sector.
- **100% European design, quality and manufacture**.

Advantages of fibre optics

- Enables deployments with minimal attenuation and maximum performance, even over long distances.
- Unlike coaxial cables, it does not suffer electromagnetic interference.
- Offers great flexibility for the installer and users.
- Allows reduction in the size of the infrastructure and simplifies maintenance tasks.
- Longer lifespan compared to structured cable.
- Technology prepared for future services.

Benefits for the installer

- Considerable savings in installation times compared to structured cable.
- Systems with low levels of interference.
- Simplification of maintenance tasks and network operations.
- High security wiring against fires.
- Material and labour cost savings.
- Installation free of noise, distortion and interference in the TV transmission.



Benefits for owners and end users

- Low maintenance costs.
- Safe infrastructure that guarantees a low risk of fire.
- Discreet installation without aesthetic disturbances.
- Long lasting technology ready for the services of the future.

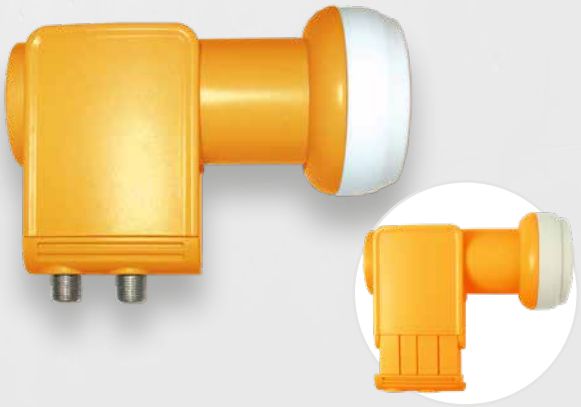
Solution products

LNB WideBand 2 outputs: V/H

Ref. 747402

Wideband LNB converter, characterized by a single local oscillator.

It captures the entire frequency spectrum of a satellite and transmits them through two otputs (V-H) in a frequency range between 290 and 2340 MHz.



REF.	DESCRIPTION	EAN 13
747402	**Wideband LNB (2 Outputs H-V) G 57dB for Overlight solution**	8424450251133

	Ref.	747402
Frequency range	GHz	10.7 ... 12.75
Output frequency range	MHz	290 ... 2340
L.O. frequency 22KHz	GHz	10,41
Gain	dB	57
Noise figure	dB	1
L.O. stability	MHz	-1 ... 1
Polarities discrimination	dB	> 20
Phase noise (@10 KHz)	dBc	-80
Powering	Vdc	10,5 ... 21
Max. current	mA	100
Impedance	Ω	75
LNB-bracket diameter	mm	40
Operating temperature	°C	-40 ... 60

OPTICAL TRANSMITTERS

Ref.237501/02

CWDM optical transmitters that receive the satellite signal coming from the outputs of a Wideband RF LNB and terrestrial band and send it to up to 64 users, through a single fiber output ("SC/APC" connection).

REF.	DESCRIPTION	EAN 13
237501	**Optical transmitter with optical output at 1550 nm and 9dBm optical power**	8424450237434
237502	**Optical transmitter with optical output at 1310 nm and 10dBm optical power**	8424450240298

	Ref.	237501			237502		
Inputs		TERR	V	H	TERR	V	H
Frequency range	MHz	47 ... 694	290 ... 2340	290 ... 2340	47 ... 694	290 ... 2340	290 ... 2340
Input level	dBµV	83 ... 95	70 ... 85	70 ... 85	83 ... 95	70 ... 85	70 ... 85
Input impedance	Ω	75			75		
Laser		MQW-DFB uncooled			MQW-DFB uncooled		
Wavelength	nm	1550 ±3			1310 ±3		
Optical output power	dBmW	9			10		
Input voltage	Vac	110 ... 230			110 ... 230		
Operating temperature	°C	-5 ... 45			-5 ... 45		
Weight	g	920			920		
Dimensions (xyz)	mm	226x120x53			226x120x53		

OPTICAL RECEIVERS

Ref. 237540/50

Overlight optical receivers for Wideband satellites and terrestrial capture the optical TV signal (1100...1650nm) sent by the optical transmitters and recover the original terrestrial and satellite TV signals. Depending on the type of services to be received, two models are available:

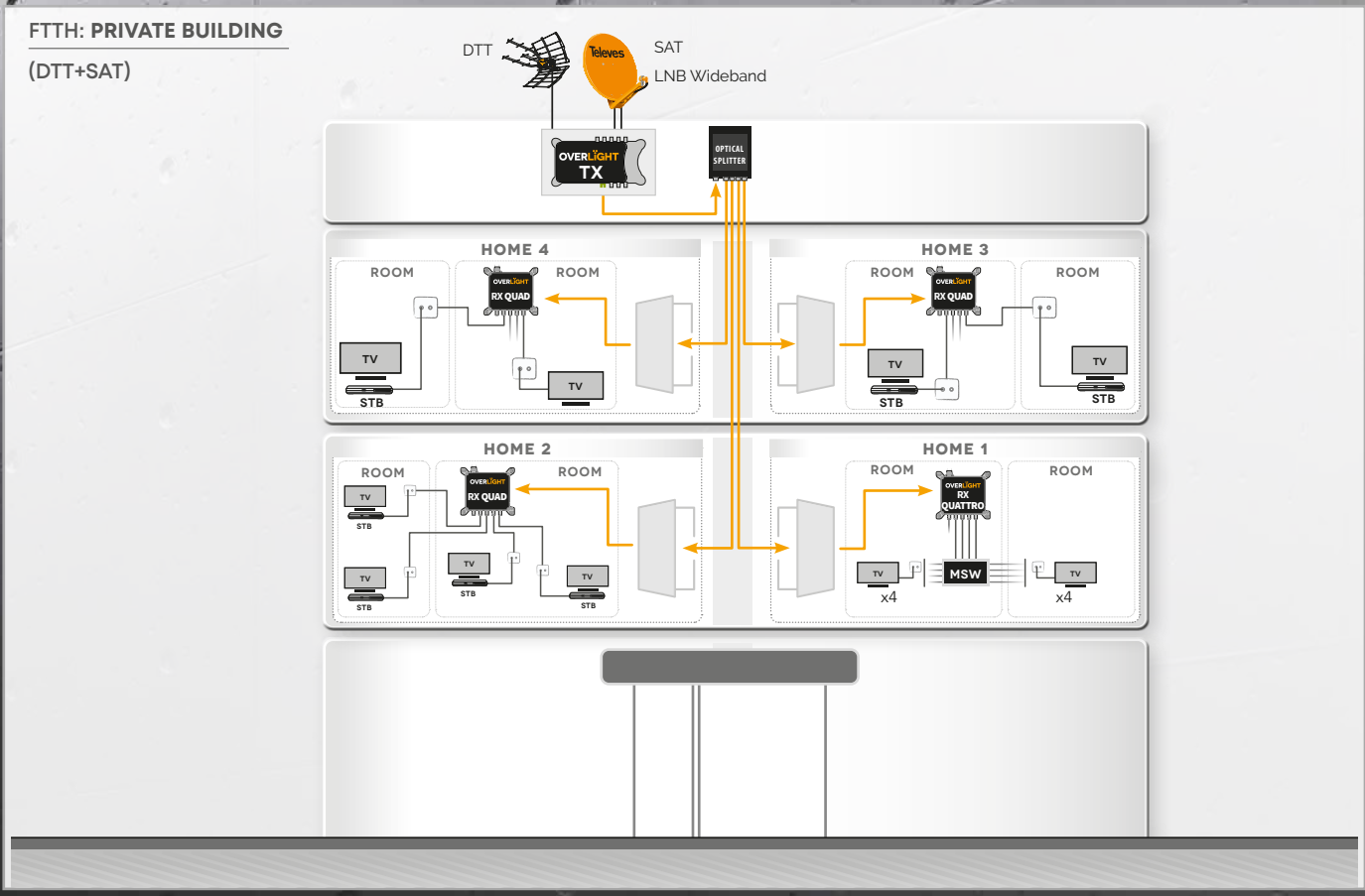
- **Ref. 237540: Overlight Quattro Optical Receiver**: It provides 4 RF outputs with Quattro mode: one of the four TVSAT polarity and band combinations is provided on each connector.
- **Ref. 237550: Overlight Quad Optical Receiver**: It provides 4 RF outputs with Quad mode: the four polarities and bands are provided on each connector.

REF.	DESCRIPTION	EAN 13
237540	**Overlight Optical Receiver Quattro "SC/APC" FM/DAB/UHF-SAT**	8424450246689
237550	**Overlight Optical Receiver Quad "SC/APC" FM/DAB/UHF-SAT**	8424450266731

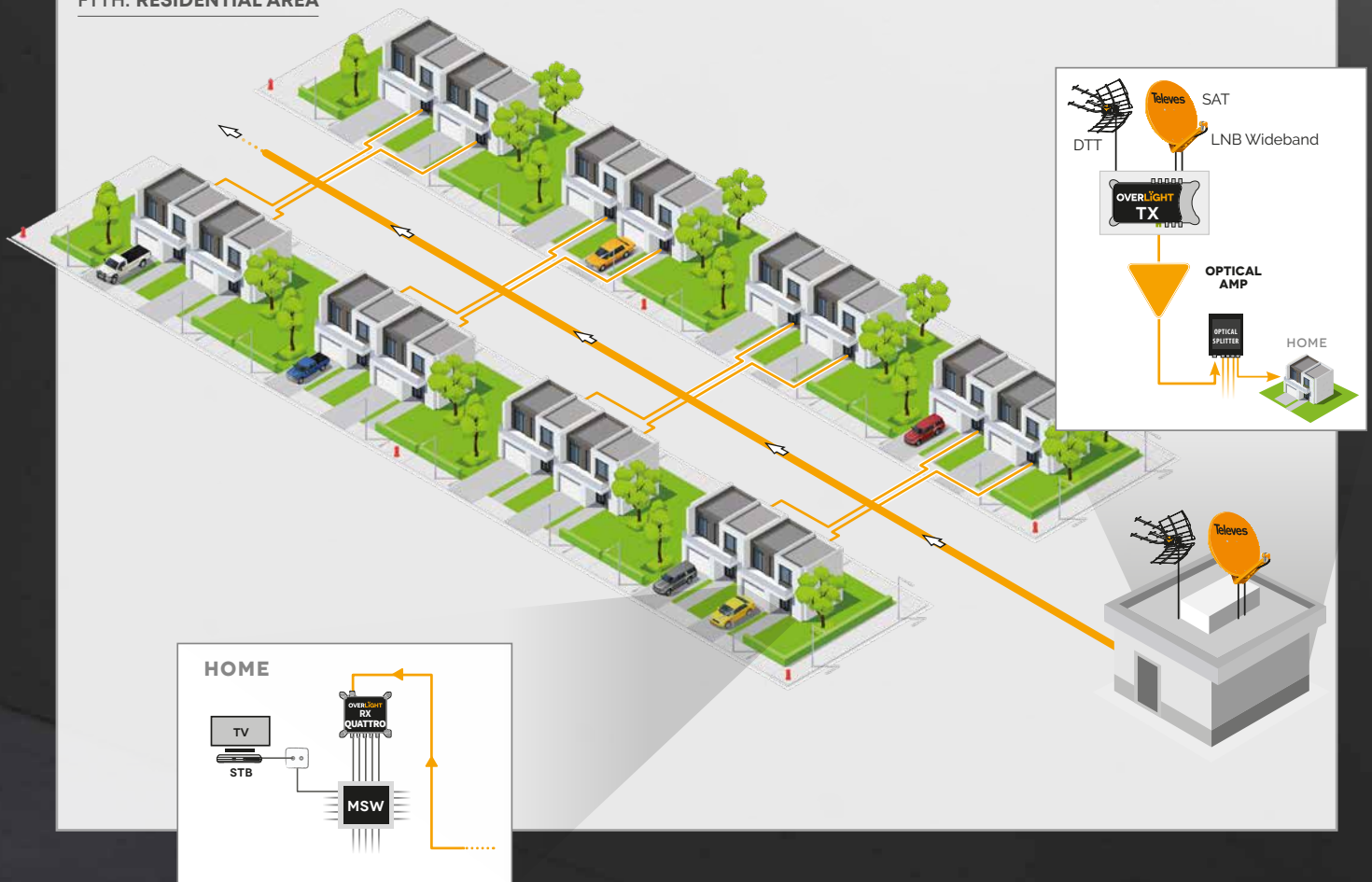
		Ref.	237540	237550
RF PARAMETERS	RF outputs	Nº / Type	4 x LEGACY 1 x TERR	4 x LEGACY 4 x TERR
	Frequency range	MHz	87 ... 694 / 950 ... 2150	
	Impedance	Ohm	75	
	Output level Legacy	dBµV	64...71	
	Output level TERR	dBµV	79...83	69...73
OPTICAL	Wavelength range	nm	1200...1600	
	Optical return losses	dB	>40	
	Optical device	Type	InGaAs	
	Optical input level	dBm	-13 ... -6	
GENERAL	RF connectors	Nº / Type	5 x "F" female	4 x "F" female
	Optical connectors	Nº / Type	1 x SC/APC	
	Output voltage	V⎓	12...18	
	Max. current	mA	750 @12V⎓ 570 @18V⎓	750 @12V⎓ 530 @18V⎓
	Operating temperature	ºC	-5 ... +45	
	Weight	g	400	
	Dimensions (xyz)	mm	137x120x30	

FTTH: **PRIVATE BUILDING**

(DTT+SAT)

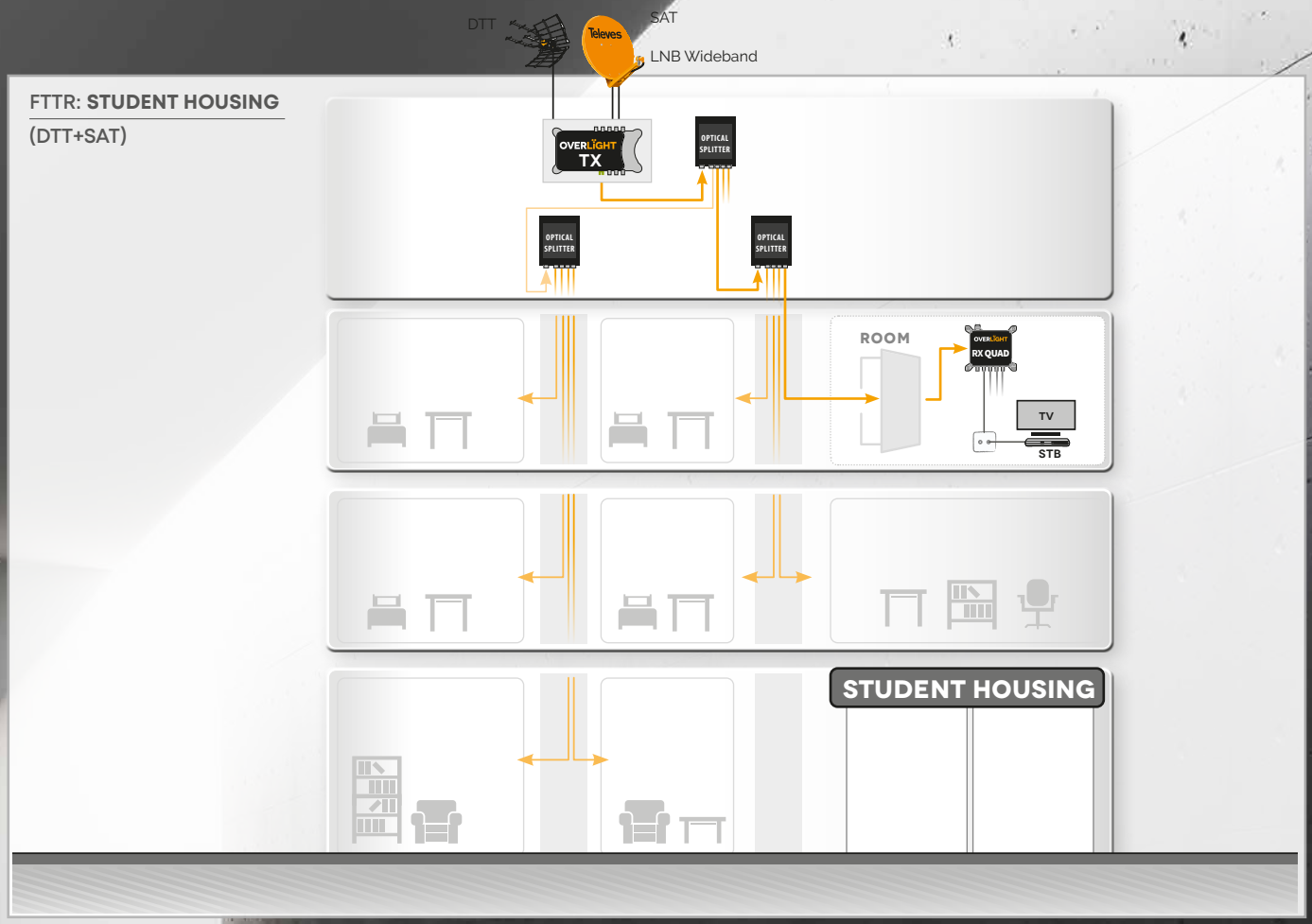


FTTH: **RESIDENTIAL AREA**

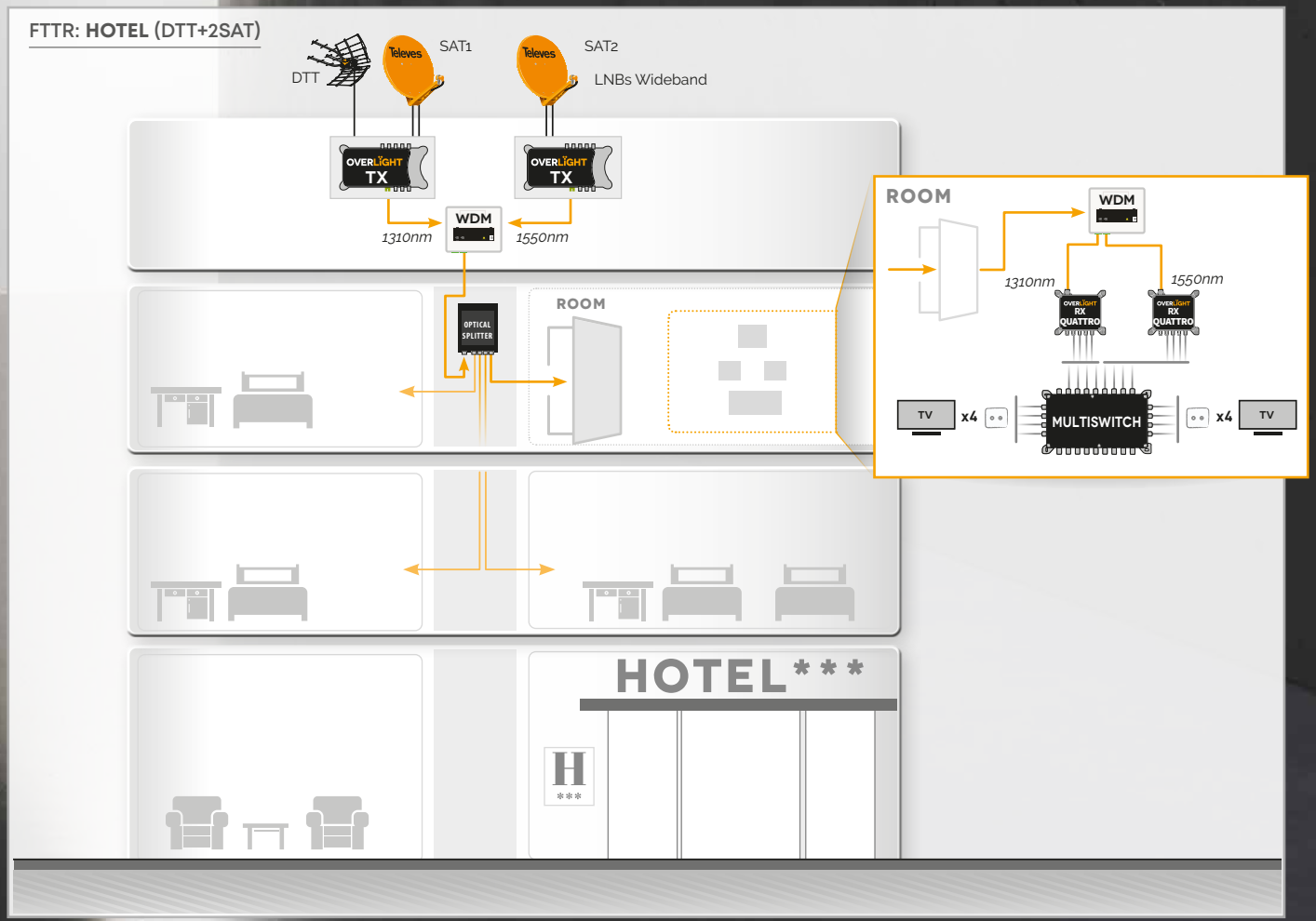


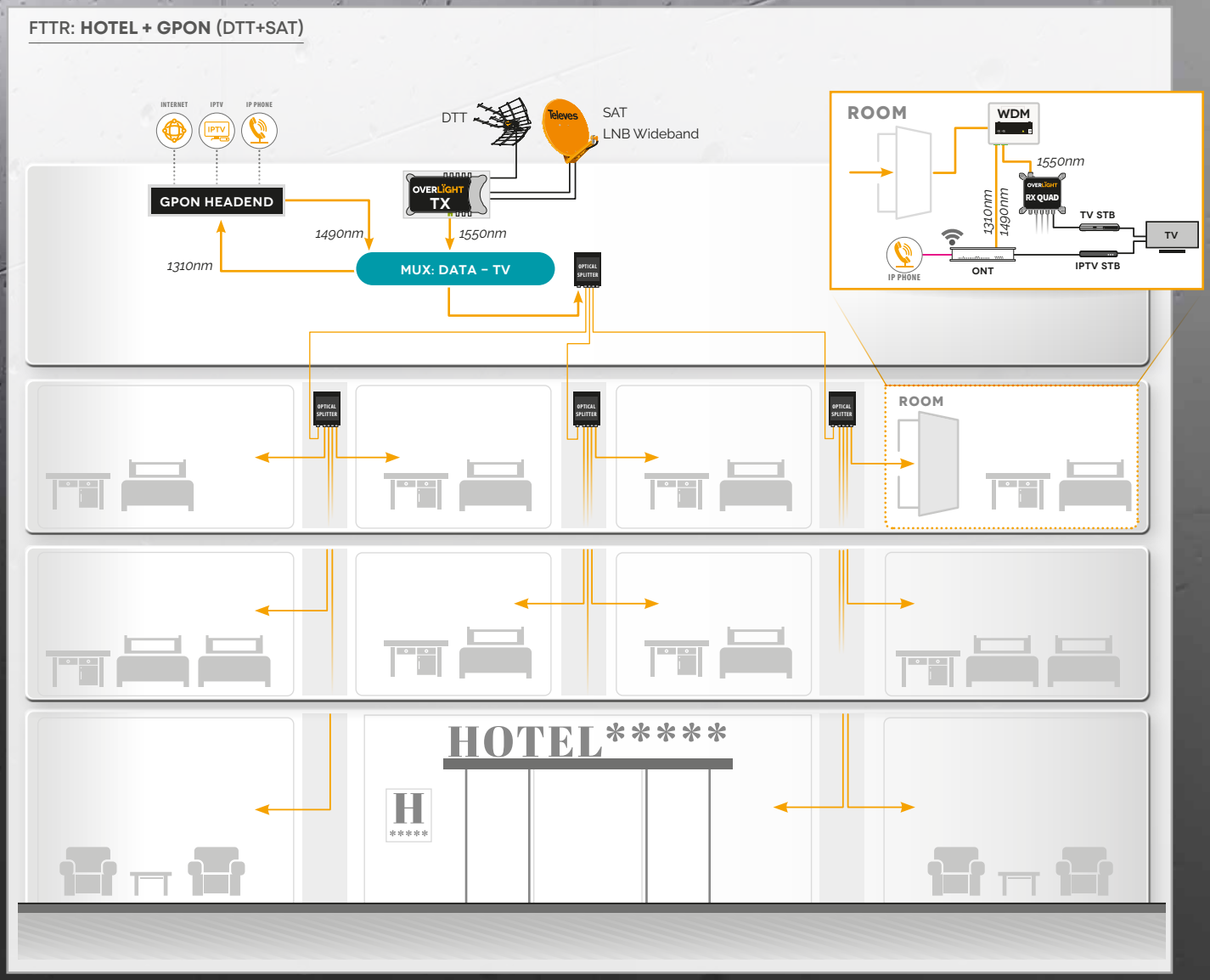
Overlight Series: TV Distribution over Fiber optics

FTTR: **STUDENT HOUSING** (DTT+SAT)



FTTR: **HOTEL** (DTT+2SAT)




FTTR: HOTEL + GPON (DTT+SAT)
INTERNET
IPTV
IP PHONE
GPON HEADEND
DTT
SAT
LNB Wideband
OVERLIGHT TX
1490nm
1550nm
1310nm
MUX: DATA - TV
OPTICAL SPLITTER
ROOM
WDM
1550nm
1310nm
1490nm
OVERLIGHT RX QUAD
TV STB
TV
IP PHONE
ONT
IPTV STB
ROOM
HOTEL*****
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Televes
OVERLIGHT


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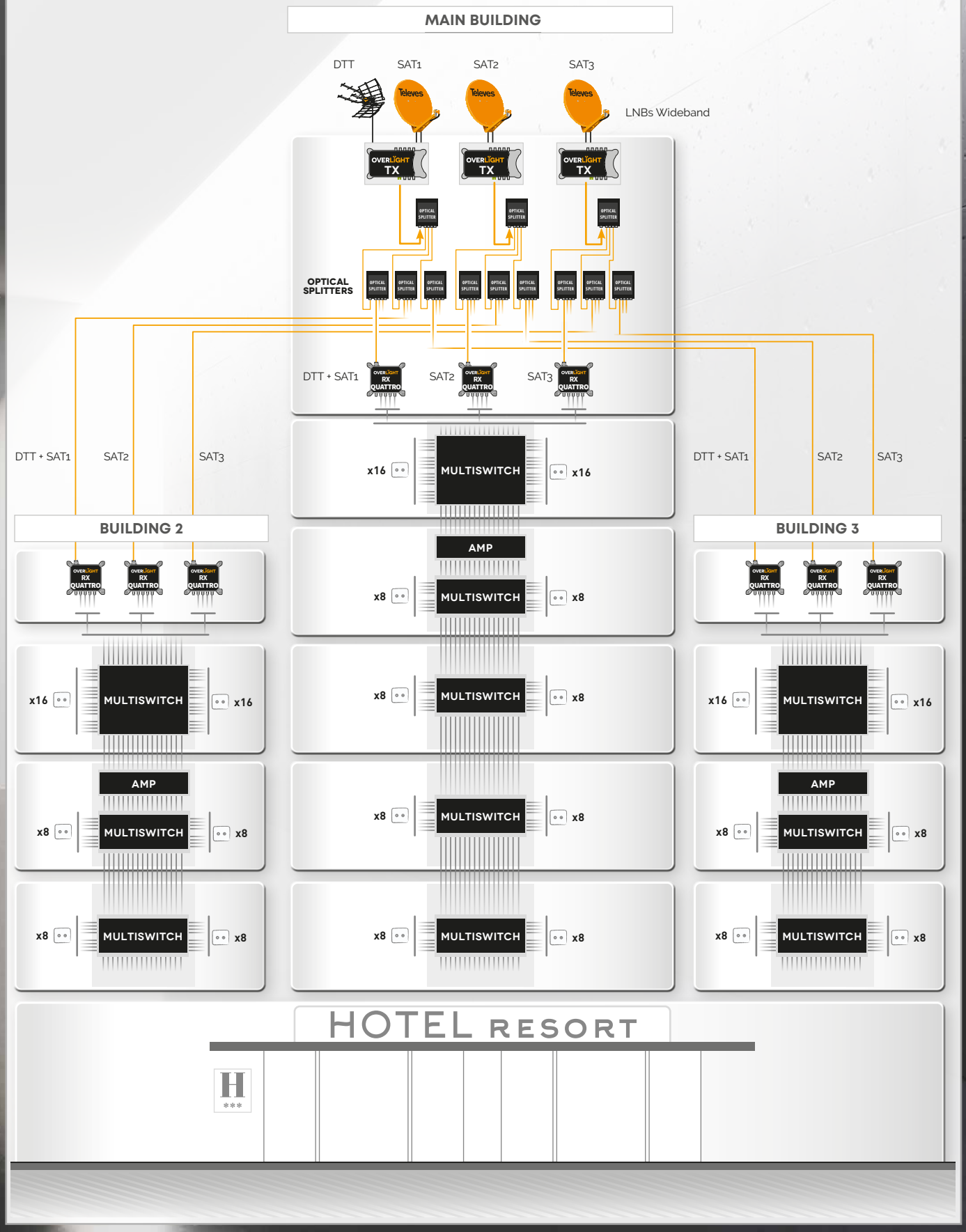
FTTB: **HOTEL COMPLEX**
(DTT+3SAT)



More information at:

en.televes.com/overlight

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