

THE COMPLETE SATELLITE AND DTT LINEUP IN A SINGLE OPTICAL FIBRE



OPTICAL SYSTEM WITH WDM (FULL SAT + DTT)

REF.237301 AND 237311

- Without adjustments
- Transmitter with OMI test socket
- Receiver with power supply outputs
- Energy-efficient thanks to its low power consumption



OPTICAL
LEVEL
CONTROL



OPTICAL
FIBRE



100% Designed, Developed & Manufactured in Televes Corporation
televescorporation ■ televes.com ■ televes@televes.com

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OPTICAL SYSTEM WITH WDM (FULL SAT + DTT)

DESCRIPTION

The system allows the distribution of the whole contents of a satellite and the whole terrestrial band on a single fibre.

The **transmitter (Ref.237301)** receives the signal from an optical LNB (1,310 nm) and mixes it with the terrestrial signal in the 1,550nm window, generating one single optical fibre output. The quality of the conversion makes this the ideal device for scenarios in which the terrestrial band contains multiple muxes.

The **receiver (Ref.237311)** separates the 1310nm optical signal, which is delivered to an optical converter that restores the four satellite's band and polarity combinations. It also includes a receiver in the 1550nm window to deliver the RF signal (DTT).

Neither device requires any adjustments and their installation is extremely simple.



MAIN FEATURES

- Ideal for optical LNB installations with a high load of DTT muxes
- No adjustments required and wide dynamic ranges
- Test socket and level display
- Full bandwidth optical reception

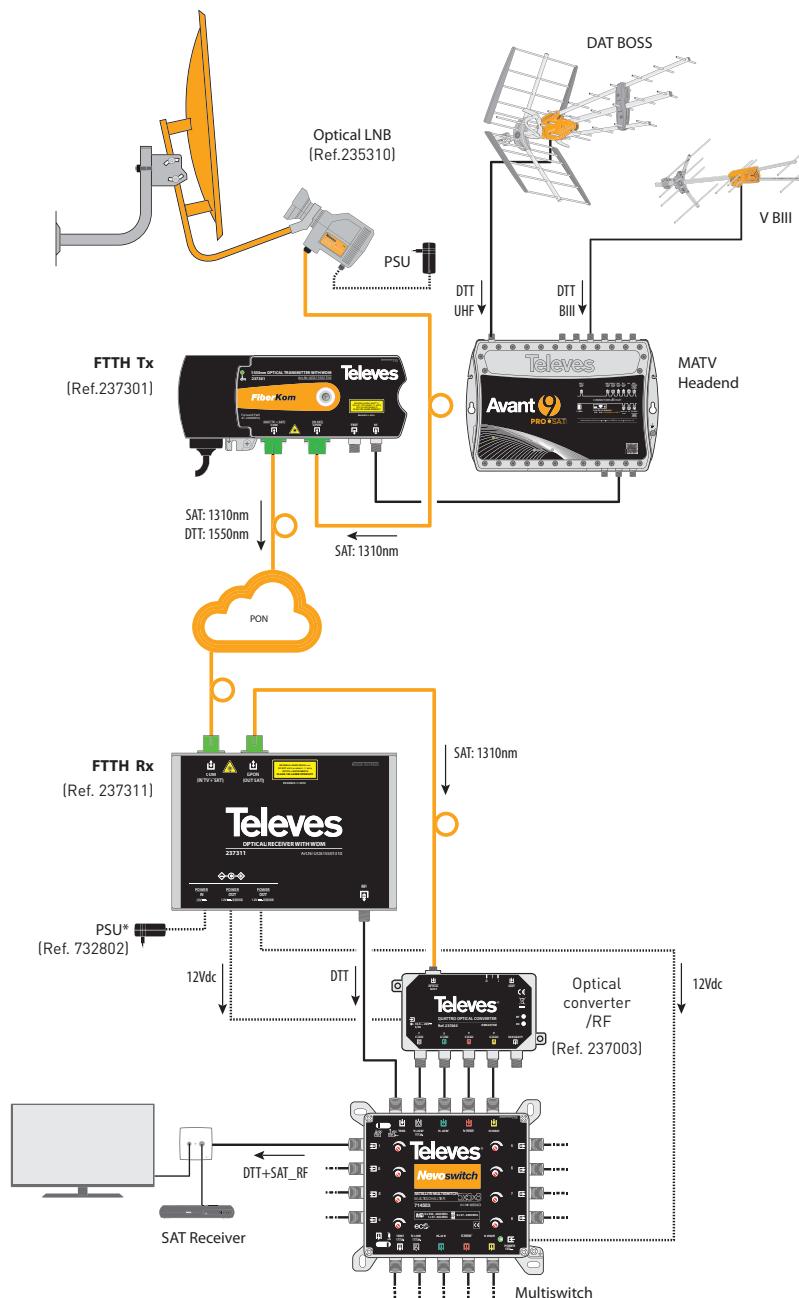
HIGHLIGHTS

- Equipped with OLC (*Optical Level Control*), which automatically provides a constant output level, whatever the channel load
- High output voltage, low power consumption
- High sensitivity in 1550nm
- Compatible with optical LNB systems

REF.	DESCRIPTION	EAN 13
237301	TX FO 1550nm (TERR.) / WDM 1310nm (SAT) SC/APC	8424450187098
237311	RX FO 1550nm (TERR.) / WDM 1310nm (SAT) SC/APC	8424450187104

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RED PON WITH OPTICAL LNB AND RF OVERLAY



In the FTTH Tx (Ref.237301) the 1310nm signal from an optical LNB is mixed with the DTT signal converted to 1550nm. Both signals enter the FTTH Rx (Ref.237311) where the 1550nm DTT signal is converted to RF while the 1310nm window is delivered to an optical converter (Ref.237003) that restores the TVSAT signal into RF.

As a result, both DTT and the complete lineup of a given satellite are available at the user outlet.

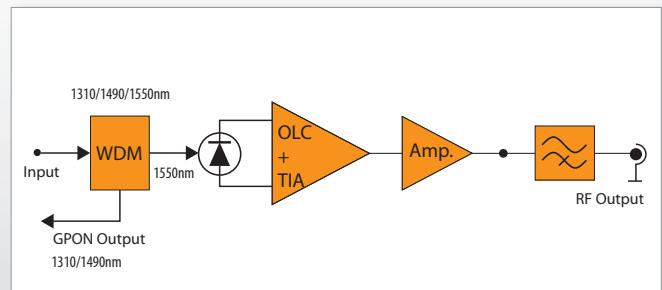
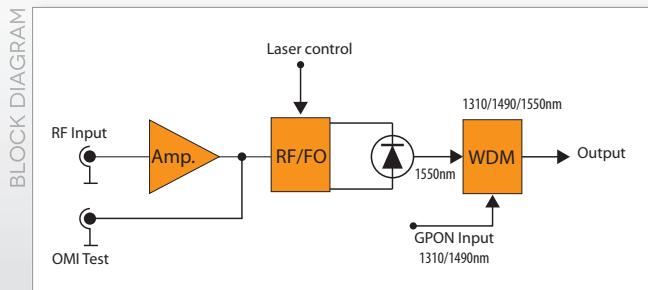
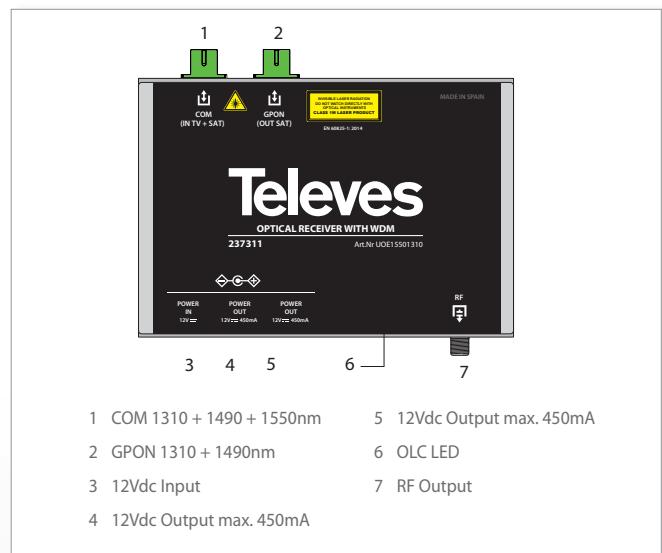
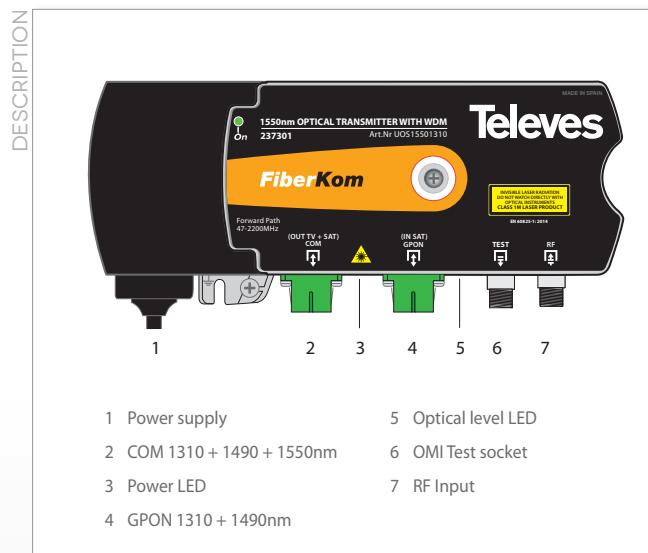
* Power supply not included. Recommended refs.:
 732101: 12V-0.8A (EU plug)
 732802: 12.5V-2.8A (EU plug)
 732210: 12V-1.5A (UK plug)

OPTICAL SYSTEM WITH WDM (FULL SAT + DTT)

TRANSMITTER REF.237301			RECEIVER REF.237311		
TECHNICAL SPECIFICATIONS					
RF PARAMETERS			RF OUTPUT		
Bandwidth	MHz	47 ... 2200	Bandwidth	MHz	47 ... 1006
Flatness	dB	± 0,75 (47-1200MHz) ± 2,5 (47-1200MHz)	Flatness	dB	± 1.5
Input level	dBµV	79 (47-1200MHz) 42ch CENELEC 95 (950-2200MHz) DIB-VDE 0855/12	Self-regulating output level	dBµV	78
CNR/CSO/CTB	dB	>51/>60/>65	CNR/CSO/CTB	dB	>49/>60/>60
OPTICAL OUTPUT			Slope	dB	5
Laser	type	MQW-DBF	OPTICAL INPUT / OUTPUT		
Output power	dBm	+6	Optical input level for OLC	dBm	-8 ... +1
Wavelength	nm	1550	Wavelength	nm	COM: 1310 & 1490 & 1550 ⁽¹⁾ GPON: 1310 & 1490 ⁽²⁾
GENERAL			GENERAL		
Supply voltage	V~	99...253	Supply voltage	V=	12
Maximum power	W	4	Device internal consumption	mA	250
Max. current consumption	mA	75 (99V) / 40 (253V)	DC transit through the output	mA	450
Dimensions (xyz)	mm	185 x 80 x 35	Dimensions (xyz)	mm	114 x 79 x 30
Weight	g	400	Weight	g	250
IP protection index	IP	30	IP protection index	IP	30

(1) 1310 and 1490nm bidirectional, 1550nm input only.

(2) 1310 and 1490nm bidirectional.



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