T.0X SERIES

Made in EU

TWIN DTT TRANSMODULATORS WITH REMULTIPLEXING FUNCTION

TWO DTT OR QAM OUTPUT MUXES PER MODULE

TWIN LCN

REF. 565101 & 565201

DVB-T2 COMPATIBILITY FOR DVB-T OR QAM RECEIVERS

These twin multiplexers **distribute two different COFDM or QAM outputs services from the TWO DTT input multiplexes**, either in DVB-T or DVB-T2 format.

The main function is the regeneration of DTT signals and/or input services filtering (Ref. 565101) or the DVBT/T2 - QAM re multiplexing (Ref. 656201). They also offer a new feature which **allows the possibility of distributing DVBT2 signals to those TVs or DTT/QAM receivers incompatible with this new broadcast standard.**

They can **mix FTA and encrypted services in the same multiplex** and also include a **SECURE DCY** to prevent CAM card flooding in case new PIDs appear.

Highlights

- Fully configurable **TWIN** (2-multiplex) output.
- Mix in the same output multiplex services from **both DVB-T or DVB-T2** input multiplexes.
- Edit the **transport stream parameters** (TS_id, ON_id and LCN).
- Compatible with **professional CAM** modules/cards.

Product Range

REF.	DESCRIPTION	EAN 13
565101	T.0X DVBT/T2-COFDM CI TWIN MUX 2Ch:2Ch	8424450170663
565201	T.0X DVBT/T2-QAM CI TWIN MUX 2Ch:2Ch	8424450170670

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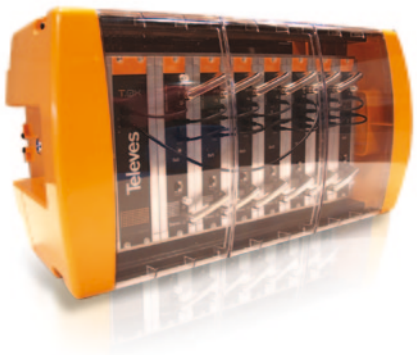
TWIN DTT TRANSMODULATORS WITH REMULTIPLEXING FUNCTION

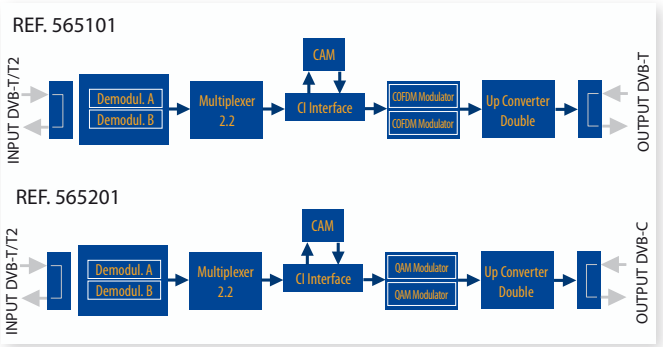
TWO DTT OR QAM OUTPUT MUXES PER MODULE

Main features

- Configurable and remote-monitored **via CDC.**
- **Set the services of the output multiplexes** by only adding the desired PIDs.
- **Information about the useful rate** of the input services.
- Information about the **output channel occupancy.**



Block diagram



Technical specifications

DVB-T / DVB-T2 Input	Input frequency		MHz	150 - 862	Through losses (tip.)		dB	< 1,5
	Frequency Step		kHz	125, 166 (Selec.)	Bandwidth	DVB-T	MHz	6, 7, 8
						DVB-T2	MHz	1.7, 5, 6, 7, 8
	Input/Output connectors		type	"F" female	Pre-amplifier powering		Vdc	0, 12, 24 (Selec)
	Input impedance		ohm	75	Input R.O.E (min.)		dB	10
QAM Modulator (Ref. 565201)	Modulation format		QAM	16, 32, 64, 128, 256	Scrambling			DVB ET300429
	Symbol Rate		Mbaud	1 - 7,2 (selec.)	Interleaving			DVB ET300429
	Roll-Off Factor		%	15	Bandwidth (max.)		MHz	8,3
	Block code			Reed Solomon (188, 204)	Output spectrum (selec.)			Regular / Inverted
COFDM Modulator (Ref. 565101)	Modulation format			QPSK, 16QAM, 64QAM	Scrambling			DVB ET300744
	Guard Interval			1/4, 1/8, 1/16, 1/32	Interleaving			DVB ET300744
	FEC			1/2, 2/3, 3/4, 5/6, 7/8	Cell_id			Selectable
	Bandwidth		MHz	7, 8	Output spectrum (selec.)			Regular / Inverted
RF Output (TWIN)	Output frequency (selec.)		MHz	46 - 862	Through losses (typ.)		dB	< 1,5
	Frequency Step	565201	KHz	250	Return losses (typ.)		dB	> 12
		565101		166 - 125 (user selectable)				
	Maximum output level (selec.)		dBµV	80 ±5	Input/Output connectors		type	"F" female
	Attenuation (progr.)		dB	> 15	Input impedance		ohm	75

General	24Vdc consumption (with active signals)*	mA	450 with no pre-amplifier powering or inserted CAM
			550 with no pre-amplifier powering or inserted CAM
			600 with no pre-amplifier powering or inserted CAM
	Protection Index		IP20

** Measured consumption with an active input signal. The showed CAM consumptions are the highest tested but depend on the particularities of each installation.*
These technical features are defined for ambient temperature of 45 °C (113 °F). For higher temperatures, forced ventilation is required.