

MULTICHANNEL LOW-POWER SOLUTIONS



Multichannel Transmitters in an outdoor cabinet

- ✓ All DTV standards : DVB-T/ T2, ATSC & ISDB-T/Tb
- ✓ Up to 6 RF channels 5Wrms or 3 ch. 10Wrms in a single unit

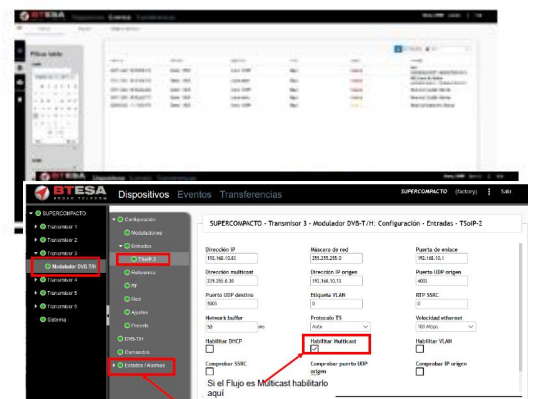
Highly flexible system

Multiple devices in a single chassis

- ✓ Transmitter
- ✓ Transposer
- ✓ Retransmitter
- ✓ Gap Filler



6 RF channels in a single unit



Webserver, SNMP 2.0 supervision

New Multichannel Low-Power solutions for Digital TV consist of compact solutions with all the elements required to broadcast up to 6 RF channels 5W each in a standard 6RU, 19" rack cabinet with the maximum efficiency, flexibility and profitability.

It is designed to offer great flexibility to our customers offering a wide range of modules. All of these "plug&play" modules are independently configured even locally or by using its powerful webserver, and include their own microprocessor so they can work although without control module. Other options are redundant plug&play power supply, 1+1, N+1 and N+R redundancy configurations...

SPECIFICATIONS

General

Available standards	DVB-T/T2, ATSC, ISDB-T/Tb	
Frequency range	470-860 MHz	8 MHz, 7 MHz, 6 MHz, 5 MHz
Temperature range	0° hasta +45°C Forced air cooling	5 fans per chassis Temperature controlled fans
Power Supply	220 Vac± 20% or 110 Vac± 20%, 50/60Hz 48 Vdc as an option	Plug&Play power supplies Optionally redundant PS
Dimensions	6 RU (266mm), 19" (482mm), 400mm	Weight 38Kg @ 6 channels
Remote control	Webserver, SNMP 2.0	
RF Demodulator inside	CBER, VBER & MER Measurements	
Test points available	IF, OL & RF	SMA connectors (on the front)

Transposers and Gap Fillers

Dynamic Input range	From -75 to -5 dBm	N Connector
Noise Figure	< 4dB	
Image Channel Rejection	> 90 dB (with standard RF input filter)	High selectivity filter for adjacent channels as option
In/Out Isolation	120 dB (typically)	
LO Phase Noise	< -90 dBc/Hz @ 1 KHz	
MER (without Echoes)	≥ 35dB @ 5W output power	
Shoulders	≥ 40 dB @ ± 4,2 MHz	Before output filter
Echoes cancellation	40 dB typ.	Gap-Fillers
Max. Echo Level	+22 dB over signal level	Gap-Fillers
MER Degradation with Echo cancellation	Negligible if Echoes <5dB	MER > 32dB with eco:+10dB (if MER w/o > 34dB)

Transmitters

Inputs	2 TSolP and 2 ASI Inputs	"Seamless" switching
Supported Networks Types	SFN and MFN	
Frequency stability	±1ppm/year (TCXO); 2x10 ⁻⁸ (OCXO opt.)	0.5ppb (SFN)
LO Phase Noise	< -90 dBc/Hz @ 1 KHz	
MER	≥ 37dB (>45 dB modulator output)	
Shoulders	≥ 40 dB (<1dB variation@any configuration)	Before output filter
Recovery time (if ASI fails)	< 2s	

Specifications subject to change without notice



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