



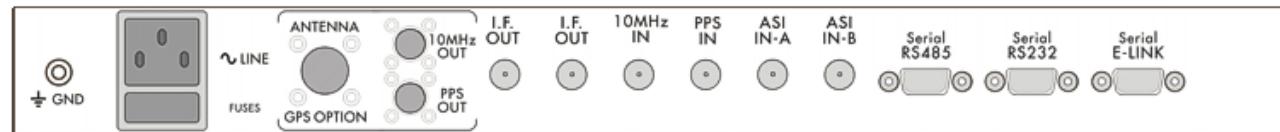
Organization System Technology

Radiodifusión

Empresa Certificada



DVB-T and DVB-H Modulator ADAPTIVE PRE-CORRECTION



O.S.T. SL

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DVB-T and DVB-H Modulator ADAPTIVE PRE-CORRECTION



Main features

- Extremely competitive price with full option
- DVB-T and DVB-H standards supported
- Capable of MFN and SFN operation
- Excellent MER value : 47dB
- Program Clock Reference restamping
- Network Information Table insertion
- High SFN system reliability, due to output fine bit rate adapting
- 2K, 4K or 8K selectable IFFT mode
- 6-7-8 MHz selectable channel BW
- Full hierarchical mode
- Manual digital pre-correction with easy adjustment, option automatic digital adaptive pre-correction
- DVB-H signalling on TPS
- DVB-H 2K and 4K in-deph interleavers

Other Features

- PCR re-stamping, NIT insertions and simple re-multiplexing function realized inside the modulator
- Designed to be integrated on the OST products gamma
- High performance equipment able to operate in all DVB-T modes
- SFN System integrated
- Software and hardware technology completely designed and developed by OST SL
- A state of the art equipment that confirms our high technological innovation both in national and international broadcasting markets.
- An innovative achievement respectfully integrated with the old technology, ensuring continuity
- Optional GPS receiver board to be integrated in to the digital modulator and SFN adapter
- GPS receiving antenna is available as well

DVB-T and DVB-H Modulator

General

Primary power	230/240/127/110 V c.a. +20% - 30% 47 to 60Hz
Operating temperature range	From 0°C to +50°C
Storage temperature range	From -10 to +70°C

Input parameters

MPEG-2 ASI Data inputs

Impedance	75 Ohm
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Ext. Ref. Frequency

Frequency	10 MHz
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Level	200mV-3Vpp
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Impedance	50 Ohm
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Time ref. input

Impedance	50 Ohm
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Frequency	1 PPS
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Level	1 ÷ 5V peak
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Digital linear and non-linear Pre-correction/ Manual or Adaptive (Option)

In Band Group Delay and Amplitude real time correction

Broad Band non-linear Phase and Amplitude real time cubic correction

In manual mode up to 4 Phase and Amplitude curve storable in EPROM memory

Output parameters

I.F. Outputs

Impedance	50 Ohm
Nominal I.F. output level	0 dBm (adjustable in 0.1dB steps from -10dBm to +3dBm)
Nominal I.F. monitor level	-6 dBm
Impedance	50 Ohm
Nominal I.F. frequency	35 ÷ 37 MHz
Tuning resolution	1Hz
Frequency stability (or in accordance with external ref accuracy)	1ppm
Spectrum polarity	inverted or not
MER	47dB

Signal processing

Supported modes

IFFT mode	2K, 4K, 8K
Guard intervals	1/4, 1/8, 1/16, 1/32
Code rates	1/2, 2/3, 3/4, 5/6,7/8
Modulation mode	QPSK, 16-QAM, 64-QAM
Hierarchical mode	alpha1-2-4 16-QAM,64-QAM
Network mode	SFN and MFN
Bandwidth	8MHz, 7MHz and 6MHz

GPS Receiver option

10MHz Ref. frequency Output

Level: 1Vpp/50 Ohm

Impedance: 50 Ohm

1 PPS Ref. Output

Level: 1,5 Vpp/50 Ohm

Impedance: 50 Ohm