

LabMod-DVB-T/H

DVB-T/H Lab Modulator

Applications

- DVB-T/H RF and IF transmissions
- Field test operations
- R&D or factory tests and measurements
- Demonstrations and roadshows

Key Points

- FPGA based HW for Robustness and reliability
- Optionnal Channel Simulator (up to 6 independent echos)
- Internal stream player and stream generator
- High grade IF and RF output quality
- Hierarchical mode
- Standalone unit, instant installation
- Intuitive Graphical User Interface
- Special test modes for corner testing

Characteristics

- MER over 42 dB in RF (and over 44 dB in IF) in the all band
- 2 ASI inputs
- USB input with TS stream player (DiviPitch)
- Internal stream generator (PRBS and MPEG)
- Optional TU6 Channel Simulator
- 2 RF outputs (main+monitoring) 100 - 870 MHz frequency range +2 to -60 dBm level dynamics
- 1 IF output 20-85 MHz frequency range 0 to -10 dBm level dynamics
- Noise generator and C/N control
- 10 MHz reference clock input + output
- Bit rate adaptation + PCR restamping
- Embedded HTTP server

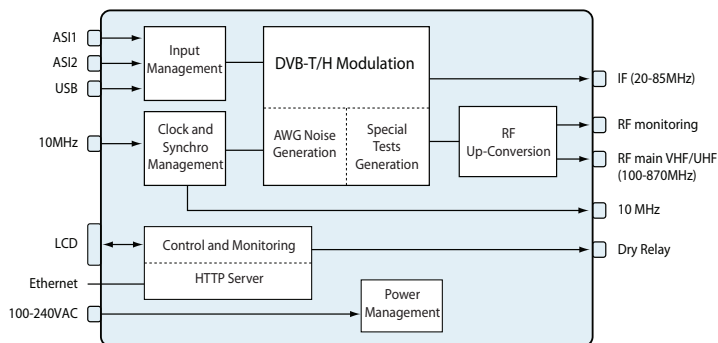


LabMod-DVB-T/H: perfect modulator for lab use thanks to rich Input/Output connectivities and wide set of test features.

LabMod-DVB-T/H modulator provides a cost effective and complete solution for Digital TV network setup in a lab or manufacturing environment, cumulating rich inputs / outputs interfacing offer, as well as test modes and channel simulator.

LabMod-DVB-T/H is fully DVB-T/H standard compliant (including hierarchical mode), and offers several kinds of inputs (ASI and USB) allowing to play any external or internal stream (internal stream player and stream generator). It generates high quality RF and IF signals that will fit any test situation that may occur in a lab, reasearch and development, or manufacturing site. Finally, optional Channel Simulator allows to reproduce any multipath configuration wished.

Easy remote management thanks to an embedded HTTP web server, LabMod-DVB-T/H modulator has a high set of features for RF and IF corner testing such as white noise generator, carriers cancellation, interleaver bypass, very large output level range, etc...



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Input Interfaces

Transport Stream inputs	2 DVB-ASI (BNC 50 Ω)
USB input	Coming with MPEG2 TS player
Signal processing	TS bit rate adaptation PCR restamping

Clock and Synchronization

Inputs	10 MHz
Output	10 MHz
Internal clock	10 MHz (1 ppm typical) In 0 - 50°C temperature range

Control & management

Web based (HTTP)	<ul style="list-style-type: none"> 10/100 Base-T Intuitive rich client interface with live statistics, monitoring and easy configuration Capability to save/load settings profiles
Front panel	Main values and IP settings

Output interfaces

RF Outputs	2 RF outputs (BNC 50 Ω) 100 MHz - 870 MHz (step 1 Hz) +2 to -60 dBm (step of 0,1dB)
IF Output	1 IF output (BNC 50 Ω) 20 MHz - 85 MHz (step 1 Hz) 0 to -10 dBm (step of 0.1dB)
Channel simulator (option)	Up to 6 channels including delay, level and phase

Modulation

Performance in all band	MER > 42 dB in RF mode MER > 44 dB in IF mode
Constellations	QPSK, 16QAM and 64QAM
Channel bandwidth	5, 6, 7 or 8 MHz
Time Interleaver	Native or In-depth
Guard Interval	1/4, 1/8, 1/16 or 1/32
FFT mode	2k, 4k or 8k
Code rate (2 different code rate in hierarchical mode)	1/2, 2/3, 3/4, 5/6 or 7/8
Network type	MFN
Test mode	Single tone, PRBS & MPEG generator, interleaver bypass, white noise generator, carriers cancellation

Physical

Height/Width/Depth	43/440/263 mm.
Format	1 RU, width 19"
Power supply	100 - 240 VAC

Environment

Operating temperature	0 to 55°C / 0 to 122 °F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Humidity	0 to 95%, non condensing



Test & Measurement Regional Sales

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