

DVB-T2 Modulator



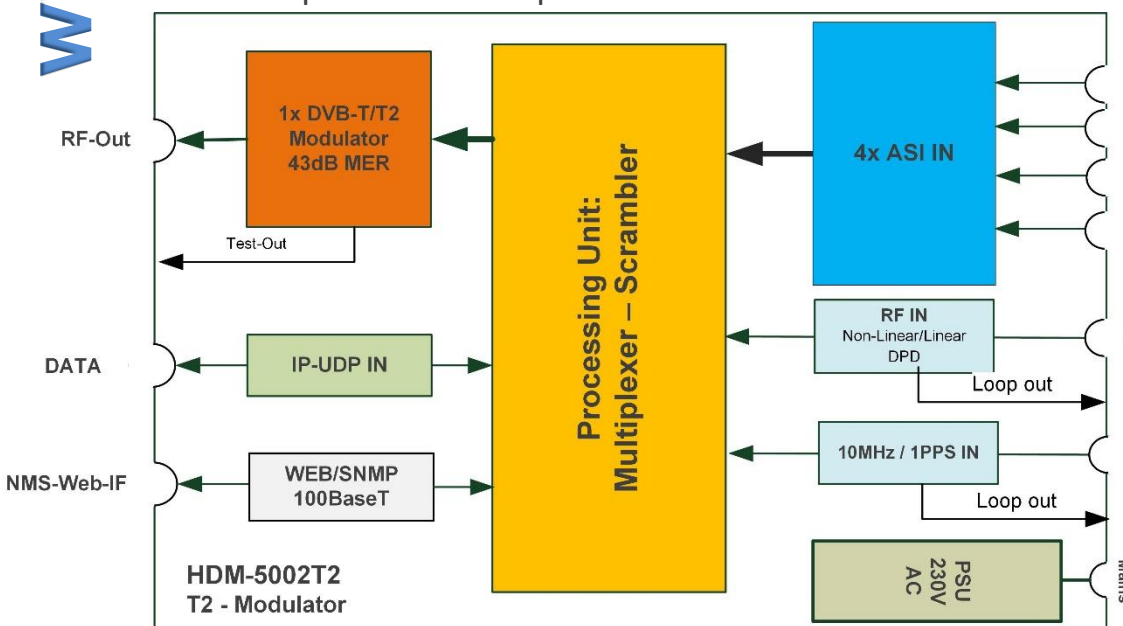
HDM-5002T2 = 4x ASI + 1 IP Inputs to DVB-T2 RF out

- 4 ASI input ports
- 1 IP input over UDP protocol
- Complies with EN300 744 / EN 302 755
- 10MHz input/loop out, 1PPS input/loop out (*future dev.)
- DVB-(T/T2) 50 Ohm RF out
- Single PLP support
- MISO and SISO
- MFN mode
- Non-linear and linear digital pre-distortion (DPD)
- *Const. temperature crystal oscillator: 0.1ppm stability
- Multiplexing, PID bypass and passthrough
- LCD display and Front-Keypad
- WebGUI management system
- 1x RF input for re-multiplex

5th Generation BLANKOM® TV Headend Technology

Broadcast grade, high performance Remultiplexer and DVB-T/T2 modulator. With advanced modulating technology, this unit can effectively transmit in the overheard spectrum bandwidth and provide a reliable signal for fixed, mobile and portable receivers. Compared with DVB-T, the channel capacity is 30% better under the similar carrier to noise ratio (CNR). Moreover, this device can be upgraded and controlled through a network access system, which allows it to be widely used in setting up digital broadcasting network and provide good signals for i.e. a scientific laboratory and DVB-(T/T2) STB or inbuilt TV Tuners. Inbuilt Transportstream remultiplexing supporting any resolution and codecs: h.264 AVC, HEVC (h.265) in SD / HD and UHD

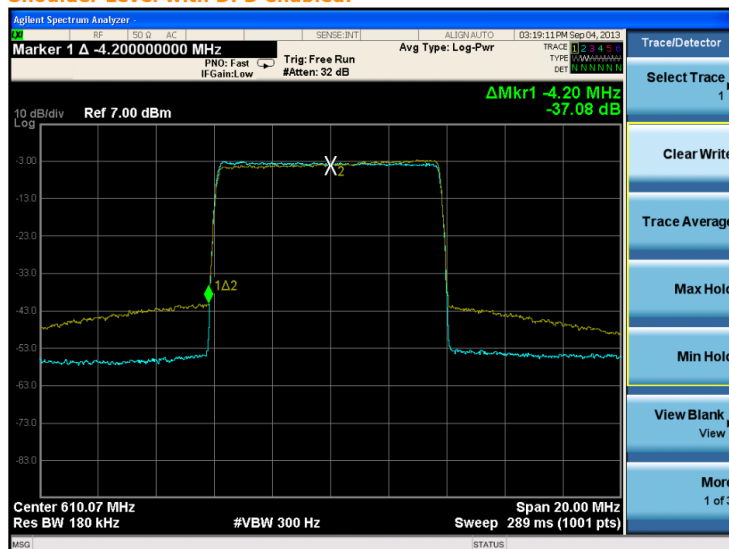
www.blankom.de



TECHNICAL SPECIFICATIONS

Input	TS input over 4 ASI and 1 IP port (UDP) 10MHz reference clock input and loop out, BNC interface 1PPS input and loop out, BNC interface	
Multiplexing	128 input per channel max. PID remapping PID remapping (automatically or manually) Accurate PCR adjusting automatic Generation of PSI/SI tables	
Modulation	Along with selectable DVB-T –Mode with its usual parameter's T2 according to EN 302 755 MODE A: single PLP PLP-Constellation: QPSK, 16QAM, 64 QAM, 256QAM (normal or rotated) L1 Post Constellation: BPSK, QPSK, 16QAM, 64QAM FEC length: Short (16k), Normal (64k) FEC rate: 1/2, 3/5, 2/3, 3/4 4/5, 5/6 Pilot pattern: PP1-PP8 Guard Interval: 1/128, 1/32, 1/16, 19/256, 1/8, 18/128, 1/4 FFT mode: 1k, 2k, 4k,8k, 16k, 32k (normal or extended) Scattered Pilots 8% of total 1%, 2%, 4%, 8% of total Continual Pilots 2.6% of total 0.35% of total Bandwidth: 5 , 6, 7 or 8 MHz Net mode: MFN only <i>SFN with 1pps/10MHz and MPLP is a future development and not supported currently</i>	
RF Out	Connector: N Type, 50Ω Impedance (75 Ohm upon request) RF range: 30...999 MHz, 1Hz steps Output level ATT: -25...+3 dBm, 0,1 dB steps MER > 43dB Shoulder Level > 56 dB	
Operation	Front-LCD/Keypad & Network management: Web Interface, English	
Dimension (W×L×H)	482mm×410mm×44mm	
Environment	0...45 °C (working temp.) /-20...80 °C (Storage)	
Power Supply	AC 220 ± 10%, 50/60 Hz	

Shoulder Level with DPD enabled:



MER:

