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)
- *Constant 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 overtheair 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
## 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

- SFN with 1pps/10MHz and MPLP is a future development and not supported currently

### 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

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**Shoulder Level with DPD enabled:**

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**Specifications are subject to change without notice.**