

DTD-1000 – DTV DECODER – MPEG2 Decoder IP

The DTV DECODER is a part of a digital equipment family developed by Teletechnika Kft. Due to this, it is easy to switch to an effective, and moreover cost-effective digital broadcasting system from the most common, and nowadays increasingly outdated analog broadcasting system. This appliance allows you to decompress the MPEG-2 Transport Stream (according to the ISO/IEC13818-2 standard) to analog baseband AV signals.



The equipment identifies automatically the incoming TS (MPTS or SPTS) parameters, Bit rate/Gop structure/Video PID/Audio PID etc. in case of ASI interface or LVDS input. The base interfaces are ASI and 100 Base-T Ethernet (UDP/IP). If you use DTV ENCODER at the counterpart of DTV DECODER in case of ETH option, the decoder also identifies automatically the incoming TS parameters but the IP address and network mode (unicast/multicast) must be set up properly. Optionally, the appliance has 4x E1 (G703) interface (HDB3, ITU-T Rec. G703.), which allows to recover the MPEG-Stream from the E1 lines. Each E1 input has accurate 2048 Mbit/s bit rate. In this way, bit rate of 2048, 4096, 6144 or 8192 Mbit/s can be fed on 4pcs. of simple phone cables according to DTV ENCODER options. The data at the E1 outputs is only processed, when the appropriate bit rate of N x E1 will be set up on the decoder (N=1...4). Furthermore, you can set all the parameters from the network management software via TCP/IP connection, or directly from the control panel.



The Decoder is able to receive unicast or multicast UDP/IP packets from the transport stream. Available TS format of the UDP packets in ETH input:

- TS with ReedSolomon error correction (7x204) special format
- IP TV (7x188) with sync
- Transparent throughput with Null-packets 7x188

Specifications:

Output	
Video	
Composite	
System	PAL 625
Connector	BNC
Impedance	75 Ohm, Unbalanced
Number	1
Audio	
System	Analog
Connector	XLR
Impedance	600/5k Ohm Balanced
Number	2 (4 Optional) Channel
Video and Audio Process	
Decoding	ISO/IEC13818-2 (MPEG2)
Chroma Format	4:2:2
Decoding Rate (Video)	0.5 – 90 MBit/s
Decoding mode	Constant (CBR)/Variable (VBR)
Encoding Rate (Audio)	448 kbit/s (Max)
Audio sampling frequency	32 kHz, 44.1 kHz, 48 kHz
Resolution	720x576, interlacing at 25 Hz
Input	
LVDS	
Standard	ANSI TIA/EIA-644, 8 bit data, clk, sy, dv
Bit Rate	512 kbps – 27 Mbps
Impedance	100 ohm
Connector	Dsub-25, female
Number	1
NxE1 (G703)	
Standard	HDB3, ITU-T Rec. G703.
Bit Rate	Nx2048 kbps (N = 1- 4)
Impedance	120, Balanced
Connector	RJ-45
Number	1 (with 4 RJ-45 Connector)
DVB-ASI	
Standard	EN50083-9,
Bit Rate	270 MBps +/- 100 ppm
Impedance	75 ohm, Unbalanced
Connector	BNC
10/100 Ethernet	
Standard	IEEE802
Bitrate	100 Mbps
Mode	Full duplex
Connector	RJ-45