16-HD ENCODER

16-HD Encoder is professional HD audio / video encoding and multiplexing device with integrated **ASI** outputs. **16 HDMI** inputs support **MPEG-4 AVC / H.264 / H.265** standards. **16-HD Encoder** can be used both for IP TV (**IP** output MPTS / SPTS) and as a part of head-end station.

The **16-HD Encoder** is applied for professional digital TV broadcasting: can be used both as independent device for IP TV and as a part of head-end station. **16-HD Encoder** encodes HD audio & video channels and can multiplex them with 2 ASI stream (TS) for further transmitting. **16-HD Encoder** has 16 HDMI inputs and both IP and ASI outputs. 16 HDMI inputs support MPEG-4 AVC/H.264 High, Baseline & Main Profile/H.265 High Profile codecs. Integrated multiplexer (with autoremaping function) of **16-HD Encoder** generates MPTS IP/ASI streams with the inserted PSI/SI information of DVB standard.

This high-definition audio and video encoder supports input video resolutions up to 1080p 60fps through built-in 16 HDMI inputs, has 1 IP (MPTS and SPTS streams through the same connector) and 2 ASI outputs.

Each encoding channel supports MPEG-4 AVC/H.264 Baseline/Main/High Profile and HEVC/H.265 High Profile.

Using our **16 channel HD Encoder** you obtain both user-friendly web-management (control by IP) and useful up-to-date device which key features and parameters are listed below.

KEY FEATURES:

- 16 HDMI inputs + 2 ASI outputs
- Supports MPEG-4 AVC/H.264 High, Baseline & Main Profile/H.265 High Profile codecs
- Supports HE-AAC / MP2 / LC-AAC / AC3 / EAC3 audio encoding

- TS multiplexing with auto-generated PSI/SI

- Supports VBR/CBR/ABR video encoding

- Supports 360p, 480p, 720p, 1080i, 1080p video formats

- MPTS or 16 SPTS IP outputs and 2 independent ASI outputs

- Web management user interface

Inputs	
Number of channels, interface	16, HDMI
Video	
Input video resolution	1920×1080p 60, 1920×1080p 50 (by request) 1920×1080i 60, 1920×1080i 50 1280×720p 60, 1280×720p 50 720×576i 50, 720×480i 59.95 480×360p
Video encoding	MPEG-4 AVC/H.264 Baseline/Main/High Profile HEVC/H.265 High Profile
Bit rate modes	CBR/VBR/ABR
Video bit rate range per channel	0.5-40 Mbit/s
GOP structure	IPPP
Pre-processing	de-interlacing, 3D noise reduction, sharpening, anti-flicker for output videos and graphics
Audio	
Audio encoding:	MPEG-1 Layer 2, LC-AAC, HE-AAC, AC3, EAC3

Audio bit rate range per channel	HE-AAC: 32-128 kbit/s; MP2: 34-384 kbit/s; LC-AAC: 64-256 kbit/s; AC3: 64-384 kbit/s; EAC3: 64-384 kbit/s
Audio gain	0-200%
Multiplexing	
Multiplexing processing	PSI/SI insertion and editing PCR correction PID remapping and passing through
Outputs	
Number of ASI outputs, connector	2, BNC-type
IP output channels, connector	1 channel MPTS and 16 channels SPTS, 1000base-T Ethernet interface (unicast/multicast)
Supply	
Supply voltage, power	AC 100...220V±10%, 50/60Hz, up to 50W