

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 autoremapping 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 |

Taking into consideration that we (UMT LLC) are developer and system integrator, also do not stop on our technical growth and improvement, know that view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters

listed on each device webpage.

Note! All details customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each our customer has 1.5 year warranty and 7 year aftersales support for whole range of our products.