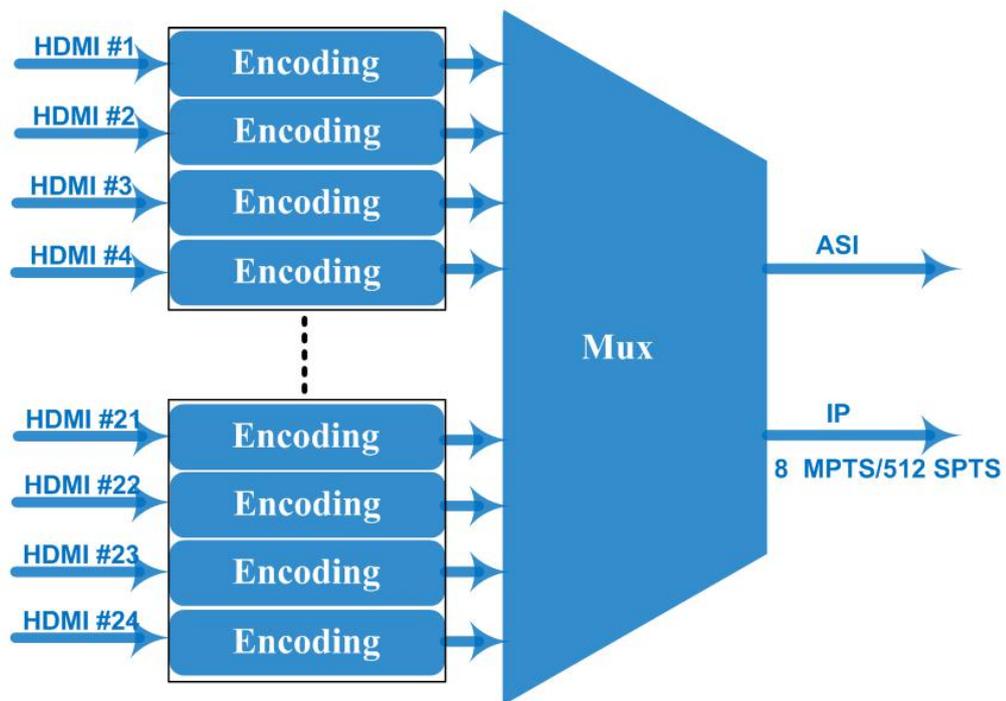# HP824H 24 in 1 HD Encoder

Product Overview

HP824H 24 in 1 HD/SD Encoder (with IP output) is a professional audio&video encoding and multiplexing device. This device has 24 HDMI input interfaces and 1 ASI output interfaces which can output the multiplexing and condensed data. Moreover, this device can simultaneously encode 24 channel audio& video signals and can multiplex stream through ASI and IP port. Besides, it supports the criterion MPEG-4/H.264 encoding format, and the audio encoding formats support MPEG-1 Layer 2,AC3 passthrough (HE-AAC V2, LC-AAC Optional). In addition, this encoder has the IP output function; users can manage the device according to the Web. In conclusion, its high compatibility and integrate design make this device widely used in a variety of digital TV broadcasting systems and IPTV headend system.

Key Features

- Support 4 HDMI channel input/module, maximum 6 modules in one chassis.
  Maximum support 24xHDMI input, (For 16xHDMI input, then it needs 4 modules)
- Support HDCP
- Support H.264/AVC video encoding

- Support 720P, 1080I, 1080P HD video format, and HD (1080i/720p) to SD (576i/480i) downscale conversion

- Support MPEG1 Layer 2 (HE-AAC (V2), LC -AAC optional) audio encoding; AC3 Passthrough

- Support audio gain control

- Low delay 50-500 ms available

- Support PSI/SI editing and inserting

- Support VBR/CBR video bitrate mode

- Support 480I, 576I, 720P,1280P, 1080I,1080P HD/SD video format

- Support ASI output MPTS

- Supports 8 MPTS (UDP, RTSP) and 512 SPTS (UDP, RTSP/ RTP) output (unicast/multicast)

- Support IP null packet filter

- Real-time output bit-rate monitoring

- Update device through NMS port

- Support web management

Principle chart

Specifications

Input	24 HDMI inputs	
Video	Resolution	1920×1080_60P, 1920×1080_50P, 1920×1080_60i, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i, 720×480_60i
	Encoding	MPEG-4 AVC/H.264
	Bit-rate	0.8Mbps~19Mbps each channel
	Rate Control	CBR/VBR
	GOP Structure	IBBP
	Advanced Pretreatment	De-interlacing, Noise reduction, Sharpening
Audio	Encoding	MPEG-1 Layer 2 (HE-AAC V2, LC-AAC Optional), AC3 pass through
	Sampling rate	48KHz
	Resolution	24-bit
	Bit-rate	64kbps~320kbps each channel
Multiplexing	Multiplex with local 24 channels TS	
Stream output	1-way ASI output, BNC interface	
	8 MPTS and 512 SPTS over UDP, RTSP and RTP, 1000Base-T Ethernet interface (unicast/multicast)	
System function	LCD/keyboard, network management, Web-NMS	
	Chinese and English language	
	Ethernet software upgrade	
Miscellaneous	Dimension(W×L×H)	482mm×410mm×44mm
	Approx weight	8kg
	Environment	0~45℃(work)；-20~80℃（Storage）
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz
	Power consumption	20W