



NDS3242A

4-in-1 MPEG-2/H.264 HD Encoder



Product Overview

NDS3242A 4-in-1 MPEG2/H.264 HD Encoder is a DEXIN new professional HD/SD audio & video encoding device with a powerful functionality. It is equipped with 4 SDI or 4 HDMI inputs supporting MPEG-2 and MPEG-4 AVC/H.264 video encoding and MPEG 2, MPEG 2-AAC, MPEG 4-AAC and DD AC3 audio encoding. The 4 encoded programs will output through ASI and IP ports in MPTS or SPTS, and there is also one ASI in port for re-multiplexing.

It adopts inner drawer - type structural design which greatly facilitates the change of encoding modules if needed.

Key Features

- Dual power supply



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- MPEG2 HD/SD & MPEG4 AVC/H.264 HD/SD video encoding
- MPEG 2, MPEG 2-AAC, MPEG 4-AAC and DD AC3 audio encoding
- Support dialog normalization (applicable for DD AC3)
- 4*SDI inputs or 4*HDMI inputs or 2* SDI + 2* HDMI inputs
- 1*ASI in for re-multiplexing
- Support resolution downscale conversion
- Support CC (closed caption) EIA 608 & EIA 708 & Line 21 (for SDI input version only)
- Support Low Delay function
- Support PSI/SI editing and inserting
- Supports IP null packet filter
- ASI output as mirror of MPTS or SPTS 1-4, IP (MPTS & 4 SPTS) output over UDP, RTP/RTSP
- LCD display, Remote control
- Web-based NMS management; Updates via web

Technical Specifications

Encoding Section

Video

Encoding	MPEG2 & MPEG4 AVC/H.264
Input	SDI*4 or HDMI*4 + 1 ASI in
Resolution	1920*1080_60P, 1920*1080_50P, (-for MPEG4 AVC/H.264 only) 1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P 720*480_60i, 720*576_50i
Support object resolution (for downscale conversion)	1920*1080_60P, 1920*1080_50P, (-for MPEG4 AVC/H.264 only) 1440*1080_60i, 1440*1080_50i, 1280*720_60p, 1280*720_50P 720*480_60i, 720*576_50i
Bit Rate	1~19.5Mbps
Chroma Sample	4:2:0
Aspect Ratio	16:9, 4:3

Audio

encoding	MPEG 2, MPEG2-AAC, MPEG4-AAC, Dolby Digital AC3 (2.0)
Dialog Normalization (Applicable for DD AC3 encoding only)	-31 ~ -1 dB
Sample rate	48KHz
Bit rate	64kbps, 96kbps, 128kbps, 192kbps, 256kbps, 320kbps



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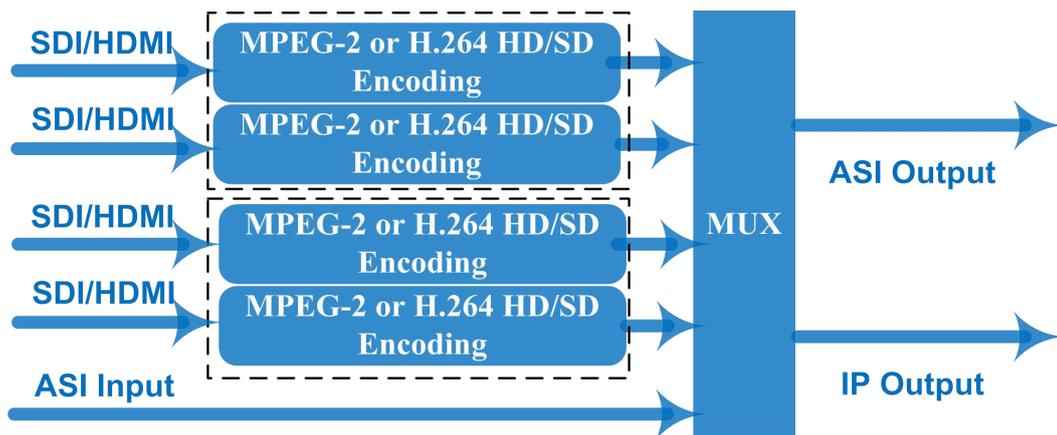
System

Local interface	LCD + control buttons
Remote management	Web NMS
Low Delay Mode	Normal, mode 1, mode 2, Manual
output	2*ASI out (BNC type, mirror ports/the same one TS); IP (1 MPTS & 4 SPTS) over UDP, RTP/RTSP (RJ45, 1000M)
NMS interface	RJ45, 100M
Language	English

General

Power	AC 100V~240V
Dimensions	482*400*44mm
Operation temperature	0~45°C

Principle Chart



Technical Comparison

	The Former Version	The Current Version (V2)
ASI in	No	Yes
Bit rate Mode	CBR/VBR option	CBR
Audio Group/Pair option-SDI	No	Yes
Video Bit Rate	0.5~19.5Mbps for H.264 encoding 1~19.5Mbps for MPEG-2 encoding	1~19.5Mbps
Low Delay	Normal/Mode 1/Mode 2	Normal/Mode 1/Mode 2/Manual
Character Encoding option	No	Yes
Output Protocol	UDP, RTP	UDP, RTP/RTSP
DATA Port	100M port	1000M port

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