

NDS3214A 4 IN 1 MPEG-4 HD Encoder



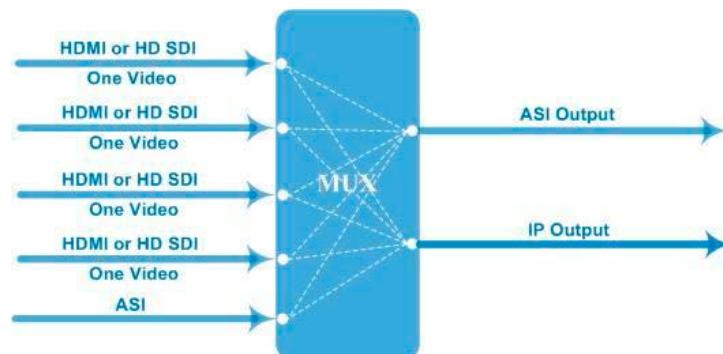
Product Overview

NDS3214H (HDMI IN) 4 in 1 MPEG-4 AVC/H.264 HD encoder is a professional HD audio & video encoding and multiplexing device with powerful functionality. It has 4 channel HDMI input interfaces, supporting MPEG-4, AVC/H.264 High Profile code format. This device can simultaneously encode 4 channel HD programs; moreover, it has an ASI input and can multiplex the input TS with the 4 encoded SPTS to generate a MPTS output. Also, the PSI/SI information can be inserted into MPTS output. In conclusion, its high integrated and cost effective design makes the device widely used in varieties of digital distribution systems such as CATV digital head-end, satellite and terrestrial digital TV, etc.

Features

- H.264/AVC High Profile Level 4.0 video encoding support, advanced video pretreatment algorithm
- Audio MPEG1 Layer 2, HE-AAC V2 (optional)
- 4 channel HDMI inputs
- 1 ASI input supports multiplexing
- 720P, 1080I HD video format support
- MPTS ASI output
- MPTS over UDP unicast/multicast output
- LCD / keyboard operating
- NMS support

Principle chart



Specification

Input

- 4×HDMI inputs (version 1.3a)
- 1×ASI input, BNC interface

Video

- Resolution 1920×1080_60i, 1920×1080_50i
1280×720_60p, 1280×720_50p
- Encoding MPEG4 AVC/H.264 High Profile Level 4.0 for HD
- Bit-rate 0.8Mbps~20Mbps (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
- Sampling rate 48KHz, 44.1KHz, 32KHz
- Resolution 24-bit
- Bit-rate 64Kb/s~384Kb/s each channel

Multiplexing

- 1×ASI input multiplexed with 4 encoding channel SPTS

Stream output

- 2×ASI outputs, BNC interface
- MPTS over UDP, 10/100Base-T Ethernet interface (UDP unicast / multicast)

System function

- LCD/keyboard operating, NMS support Chinese-English control interface
- Ethernet software upgrade

General

- Dimensions (W×D×H) 482mm×455mm×44.5mm
- Approx weight 4.8Kg
- Temperature range 0~45°C(Operating), -20~80°C(Storage)
- Power Requirements AC 110V±10%, 50/60Hz or AC 220V±10%, 50/60Hz
- Power consumption 25W