

Encoder Series

NDS3224A-D 4 in 1 MPEG-2 H.264 SD Encoder



Outline

The DEXIN NDS3224A-D 4 in 1 MPEG-2 H.264 SD Encoder is our newest professional SD audio & video encoding and multiplexing device with powerful functionality. It supports MPEG-2 and H.264 encoder type. Furthermore, it can support the MPEG-1 Audio layer 2, LC-ACC, HE-AAC, and each channel can support ultra low bit-rate (0.25~15Mbps for H.264 encoding, and 0.5~15Mbps for MPEG-2 encoding). This device can simultaneously encode 4 channel SD audio & video; moreover, it has an ASI input and can multiplex the input TS with the 4 encoded SPTS to generate a MPTS output, and users can select the MPTS and 4SPTS through the front panel or NMS operation. 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.

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Features

- 4 independent channels of SDI input ports and 1 ASI input multiplexing
- Supports multiple resolutions:
PAL:720*576/352*288/320*240/320*180/176*144/160*120/160*90@50Hz
NTSC: 720*480/352*288/320*240/320*180/176*144/160*120/160*90@59.94Hz
- H.264 and MPEG-2 video encoding, advanced video pretreatment algorithm
- MPEG1 Audio Layer 2 , LC-AAC,HE-AAC
- Supports VBR/CBR video encoding
- Supports ultra low bit rate encodings: 0.25~15Mbps(H.264)/ 0.5~15Mbps(MPEG-2)
- System output bit rate range: 2~40Mbps
- Supports multiplexed MPTS ASI output
- Supports MPTS and 4SPTS selection through the LCD or NMS operation
- Supports multiplexed MPTS or 4 SPTS over UDP unicast/multicast output
- Two isolated ports separately for data transfer and Ethernet
- Real-time effective output bit-rate monitoring
- LCD / keyboard and NMS operation

Specifications

Input	4xSDI inputs, BNC interface	
	1xASI input, BNC interface	
Video	Resolution	PAL:720*576/352*288/320*240/320*180/176*144/ 160*120/160*90@50Hz
		NTSC:720*480/352*288/320*240/320*180/176*144/ 160*120/160*90@59.94Hz

Add: 56 Fei Zhu Shi Street Chengdu, Sichuan, PR China Postcode: 610041 [Http://www.dsdvb.com/English](http://www.dsdvb.com/English)
Tel:+86-28-85550524 +86-28-85558928 Fax:+86-28-85585255 E-mail: sunyu@dsdvb.com

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	Encoding	MPEG-2 /H.264
	Bit rate	0.25~15Mbps for H.264 encoding, and 0.5~15Mbps for MPEG-2 encoding
	Rate Control	CBR/VBR
	GOP Structure	IBBP
	Advanced Pretreatment	De-interlacing, noise reduction, sharpening
Audio	Encoding	MPEG1 Audio Layer 2 , LC-AAC,HE-AAC
	Sampling rate	48KHz,
	Resolution	24 bit
	Bit-rate	64Kb/s~384Kb/s (each channel)
Multiplexing		1 ASI input multiplexed with local 4 channels TS
Stream output		2 x ASI outputs, BNC interface
		MPTS over UDP,10/100Base-T Ethernet interface (UDP unicast / multicast), 4 SPTS(optional)
System function		LCD/keyboard operating, NMS support,
		Chinese-English control interface
		Ethernet software upgrade
General	Dimensions (WxDxH)	482mm×455mm×44.5mm
	Approx weight	4Kg
	Temperature range	0~45°C (Operation), -20~80°C (Storage)
	Power requirements	AC 110V±10%,50/60Hz or AC 220V±10%,50/60Hz
	Power consumption	17.6W