NDS3542

Encoder Modulator

1U Rack Dual Channels In

Portable Single Channel In

Multiple Encoding interface optional

Product Overview

NDS3542 series products are DEXIN's all-in-one devices which integrate encoding, multiplexing and modulation to convert V/A signals into digital RF output. It adopts inner drawer-type structural design which greatly facilitates the change of encoding modules (HDMI/CVBS/SDI/YPbPr/…) as needed. To meet customers' various requirements, NDS3542 is also equipped with 1 ASI input for re-mux, and output with 2 ASI ports and 1 IP port.

The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, and antenna etc. Its output signals are to be received by TVs, STB and etc with corresponding standard.

With its various inputs available, our NDS3542 series products are wildly used in public places such as metro, market hall, theatre, hotels, resorts, and etc for advertising, monitoring, training and educating in company, schools, campuses, hospital… It's a good choice to offer additional info channels.

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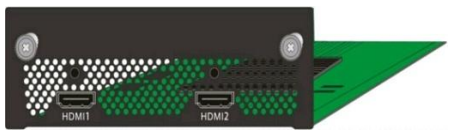
Key Features

- HDMI/CVBS/SDI/YPbPr… inputs， 1*ASI in for re-mux; 1*RF in for RF mix
- MPEG2 HD/SD & MPEG4 AVC H.264 HD/SD video encoding
- 1* channel in (portable case); 2* channels in (19” rack case)
- MPEG4-AAC; MPEG2-AAC; MPEG1 Layer Ⅱ and Dolby Digital AC3 2.0 (Optional) audio encoding
- Dolby Digital AC3 passthrough(for HDMI of HDMI/YPbPr/CVBS 3-in-1)
- Huge video buffer (for SDI interface), free to switch video sources
- Dialog Normalization(Optional)
- Support CC (closed caption) for SDI and CVBS interface (Optional)
- Support low delay encoding mode(Optional)
- Support VBR/CBR rate control mode
- Support PSI/SI editing
- Support PCR accurate adjusting
- Support PID re-mapping and passthrough
- Digital RF out (DVB-C/T/ATSC/ISDB-T RF Optional) and ASI out; IP out
- LCN (Logical Channel Number) support – for DVB-C/T/ISDB-T modulating module
- VCT (Virtual Channel Table) support – for ATSC modulating module
- Modular design, pluggable encoding modules
- LCD display, Remote control and firmware
- Web-based NMS management; Updates via web
- Lowest cost per channel

Technical Specifications

HDMI Encoding Input



Video	Input	Option 1: HDMI*1
		Option 2: HDMI*2
	Encoding	MPEG2; MPEG4 AVC/H.264 (for option 1: HDMI*1)
		MPEG4 AVC/H.264 (for option 2:HDMI*2)
	Bitrate	1-19.5Mbps
	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
	Low Delay	Normal, Mode 1, Mode 2 (for option 1: HDMI*1)
	Rate Control	VBR/CBR
	Chroma	4:2:0
	Aspect Ratio	16:9,4:3
Audio	Encoding	MPEG1 Layer II; LC-AAC; HE-AAC and Dolby Digital AC3 2.0 (Optional) (for option 1: HDMI*1)
		MPEG1 Layer II(for option 2: HDMI*2)
	Sample rate	48KHz
	Bitrate	64/96/128/ 192/256/320kbps

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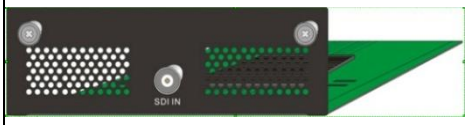
HDMI/YPbPr/CVBS

3-in-1 Encoding Input

Video (HDMI)	Encoding	MPEG2; MPEG4 AVC/H.264
	Input	HDMI*1
	Bitrate	1-19.5Mbps
	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
	Low Delay	Normal, Mode 1, Mode 2
	Rate Control	VBR/CBR
	Chroma	4:2:0
	Aspect Ratio	16:9,4:3
Audio (HDMI)	Encoding	MPEG1 Layer II ,MPEG2-AAC, MPEG4-AAC and Dolby Digital AC3 2.0(Optional)
	Input	HDMI*1
	Sample rate	48KHz
	Bitrate	64/96/128/ 192/256/320kbps
Video (YpbPr/ CVBS)	Encoding	MPEG2; MPEG4 AVC/H.264
	Input	YpbPr*1 / CVBS *1
	Bitrate	1-19.5Mbps
	Resolution	**CVBS:** 720x576_50i (PAL); 720x480_60i (NTSC) **YpbPr:** 1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P
	Low Delay	Normal, Mode 1, Mode 2
	Rate Control	VBR/CBR
	Chroma	4:2:0
	Aspect Ratio	16:9,4:3
Audio (YpbPr/ CVBS)	Encoding	MPEG1 Layer II; MPEG2-AAC; MPEG4-AAC and Dolby Digital AC3 2.0(Optional)
	Interface	1*Stereo/2*mono
	Sample rate	48KHz
	Bit rate	64/96/128/ 192/256/320kbps

SDI Encoding Input



Video	Encoding	MPEG2; MPEG4 AVC/H.264
	Input	SDI*1
	Bitrate	1-19.5Mbps
	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
	Low Delay	Normal, Mode 1, Mode 2
	Rate Control	VBR/CBR
	Chroma	4:2:0
	Aspect Ratio	16:9,4:3
Audio	Encoding	MPEG1 Layer II ,MPEG2-AAC, MPEG4-AAC and Dolby Digital AC3 2.0(Optional)
	Sample rate	48KHz
	Bitrate	64/96/128/ 192/256/320kbps

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2*(S-Video/YPbPr/CVBS)

3-in-1 Encoding Input

Video	Encoding	Option 1: MPEG-2 MP@ML(4:2:0)	
		Option 2: MPEG-2 & MPEG-4 AVC/H.264 (4:2:0)	
	Input	S-Video/YPbPr/CVBS*2	
	Bitrate	1-19.5Mbps	
	Resolution	720*480_60i, 720*576_50i	
	Low Delay	Normal, Mode 1, Mode 2(For option 1)	
	Rate Control	VBR/CBR	
	Chroma	4:2:0	
	Aspect Ratio	16:9,4:3	
Audio	Encoding	Option 1: MPEG1 Layer II	
		Option 2: MPEG1 Layer II; LC-AAC; HE-AAC and Dolby Digital AC3 2.0(Optional)	
	Sample rate	48KHz	
	Bitrate	64/96/128/ 192/256/320kbps	

VGA/HDMI

Encoding Input

Video (HDMI)	Encoding	MPEG2; MPEG4 AVC/H.264
	Input	HDMI*1
	Bitrate	1-19.5Mbps
	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*576-50i, 720*480-60i
	Low Delay	Normal, Mode 1, Mode 2
	Rate Control	VBR/CBR
	Chroma	4:2:0
	Aspect Ratio	16:9,4:3
Audio (HDMI)	Encoding	MPEG1 Layer II; MPEG2-AAC; MPEG4-AAC, and Dolby Digital AC3 2.0(Optional)
	Sample rate	48KHz
	Bitrate	64/96/128/ 192/256/320kbps
Video (VGA)	Encoding	MPEG2; MPEG4 AVC/H.264
	Input	VGA(SVGA/XGA/UXGA/SXGA)
	Bitrate	1-19.5Mbps
	Resolution	1920*1080_60P, 1280*720_60p
	Low Delay	Normal, Mode 1, Mode 2
	Rate Control	VBR/CBR
	Chroma	4:2:0
	Aspect Ratio	16:9,4:3
Audio (VGA)	Encoding	MPEG1 Layer II; MPEG2-AAC; MPEG4-AAC, and Dolby Digital AC3 2.0(Optional)
	Sample rate	48KHz
	Bit rate	64/96/128/ 192/256/320kbps

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Modulator Section	**DVB-T (Optional)**	Standard	DVB-T COFDM		
		Bandwidth	6M, 7M, 8M		
		Constellation	QPSK, 16QAM, 64QAM		
		Code rate	1/2, 2/3, 3/4, 5/6, 7/8.		
		Guard Interval	1/32, 1/16, 1/8, 1/4		
		Transmission Mode	2K, 8K		
		MER	≥42dB		
		RF frequency	30~960MHz, 1KHz step		
		RF Out	1*DVB-T; 2*DVB-T carriers combined output (Option)		
		RF output level	-30~ -10dbm (77~97 dbμV), 0.1db step		
	DVB-C (Optional)	Standard	J.83A (DVB-C), J.83B, J.83C		
		MER	≥43dB		
		RF frequency	30~960MHz, 1KHz step		
		RF output level	-30~ -10dbm (77~97 dbμV), 0.1db step		
		Symbol rate	5.000~9.000Msps adjustable		
		RF Out	1*DVB-C; 4*DVB-C carriers combined output (Option)		
			J.83A	**J.83B**	**J.83C**
		Constellation	16/32/64/128 /256QAM	64/ 256 QAM	64/ 256 QAM
		Bandwidth	8M	6M	6M
	ATSC (Optional)	Standard	ATSC A/53		
		MER	≥42dB		
		RF frequency	30~960MHz, 1KHz step.		
		RF Out	1*ATSC; 4*ATSC carriers combined output (Option)		
		RF output level	-26~-10dbm (81~97dbμV), 0.1db step		
		Constellation	8VSB		
	ISDB-T (Optional)	Standard	ARIB STD-B31		
		Bandwidth	6M		
		Constellation	DQPSK,QPSK, 16QAM, 64QAM		
		Guard Interval	1/32, 1/16, 1/8, 1/4		
		Transmission Mode	2K, 4K, 8K		
		MER	≥42dB		
		RF frequency	30~960MHz, 1KHz step		
		RF Out	1*ISDBT;		
		RF output level	-30~ -10dbm (77~97 dbμV), 0.1db step		

General	**System**	Local interface	LCD + control buttons
		Remote management	Web NMS
		Stream Out	2 ASI out (BNC type)

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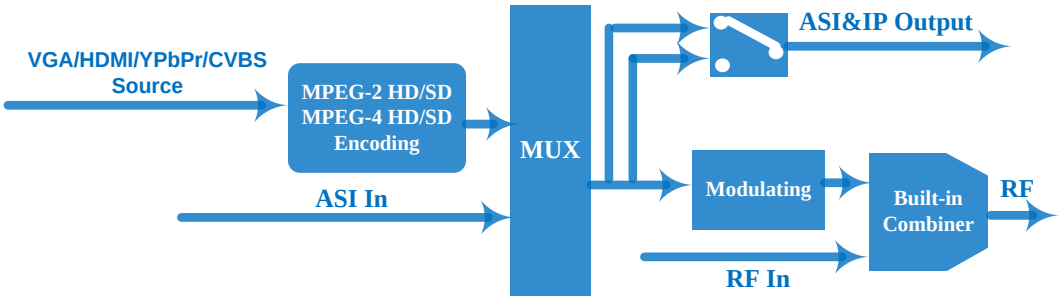
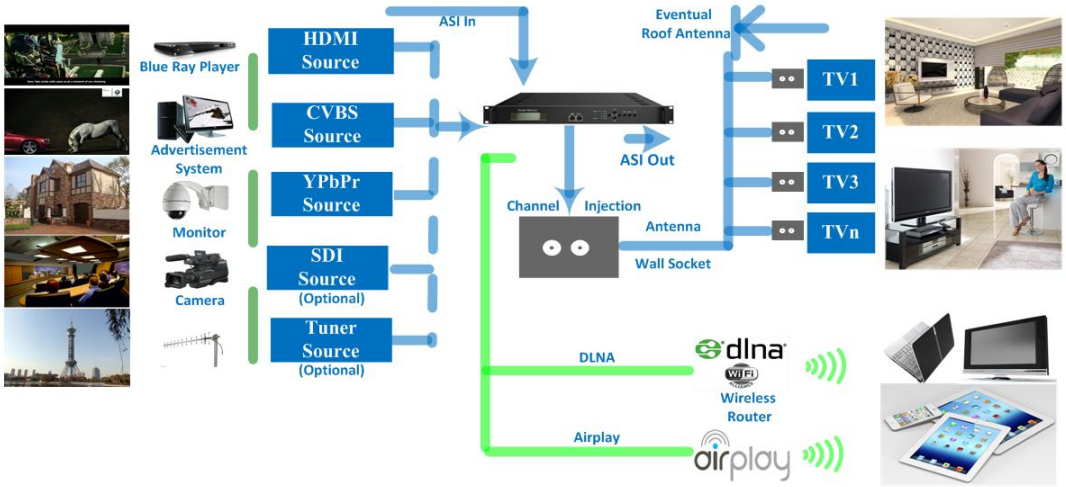
			DVB-C/ATSC: IP (1 MPTS & 4 SPTS) out over UDP, RTP/RTSP (4 RF out) DVB-T: IP (3 MPTS or 4 SPTS) out over UDP, RTP/RTSP (2 RF out) ISDBT: IP (1 MPTS) out over UDP, RTP/RTSP (1 RF out)
			IP (1 MPTS) out over UDP, RTP/RTSP (only for 1 RF out, RTP/RTSP is just for 1 DVB-C/T RF)
		NMS interface	RJ45, 100M
		Language	English
	Physical Specification	Power supply	AC 100V~240V
		Dimensions	482*300*44mm (19" rack) 267*250*44mm (portable)
		Weight	4.5 kg (19" rack) 2.5 kg (portable)
		Operation temperature	0~45℃

Principle Chart



Typical Applications



Updated Date: 3 June, 2019

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