



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 optionally equipped with 1 ASI input for re-mux and 2 ASI out ports. MPTS and SPTS output are available via the gigabit DATA port.

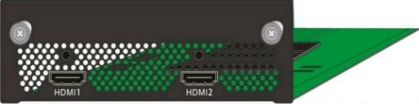

With its various inputs available, our NDS3542 series products are widely used in public places such as metro, market hall, theatre, hotels, resorts, and etc for advertising, monitoring, training and educating in company, schools, campuses, hospital...

Key Features

- HDMI/CVBS/SDI/YPbPr... inputs (Now only HDMI and SDI board are available)
- 1*ASI in for re-mux and 2 ASI out ports (optional);
- MPEG2 HD/SD & MPEG4 AVC H.264 HD/SD video encoding
- MPEG4-AAC; MPEG2-AAC; MPEG1 Layer II and Dolby Digital AC3 2.0 audio encoding
- Dialog Normalization
- Support CC (closed caption) for SDI board
- Support low delay encoding mode(SDI and HDMI board)

- Support PSI/SI editing
- Support PID re-mapping
- Digital RF out (DVB-C/T/ATSC/ISDB-T RF Optional)
- IP out via the gigabit data port
- LCN (Logical Channel Number) support – for DVB-C/T/ISDB-T modulating mode
- VCT (Virtual Channel Table) support – for DVB-C/ATSC modulating mode
- Modular design, plug-gable encoding modules
- LCD display, Remote control and firmware
- Web-based NMS management; Updates via web
- Lowest cost per channel

Technical Specifications

HDMI Input 	Video	Input	HDMI*1(the other is backup)
		Encoding	MPEG2; MPEG4 AVC/H.264
		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
		Chroma	4:2:0
		Aspect Ratio	16:9,4:3
	Audio	Encoding	MPEG1 Layer II;MPEG 2-AAC; MPEG 4-AAC and Dolby Digital AC3 2.0
		Sample rate	48KHz
		Bitrate	64/96/128/ 192/256/320kbps
SDI 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, Manual
		Chroma	4:2:0
	Audio	Aspect Ratio	16:9,4:3
		Encoding	MPEG1 Layer II ,MPEG2-AAC, MPEG4-AAC and Dolby Digital AC3 2.0
		Sample rate	48KHz
		Bitrate	64/96/128/ 192/256/320kbps
HDMI/YPbPr/CVBS 3-in-1 Input (under developing)	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,

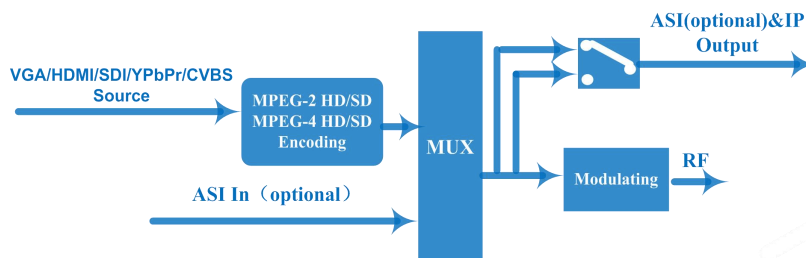


Modulator Section

			1280*720_60p, 1280*720_50P 720*480_60i, 720*576_50i	
		Low Delay	Normal, Mode 1, Mode 2, Manual	
		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	
		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, Manual		
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		
	Interface	1*Stereo/2*mono		
	Sample rate	48KHz		
	Bit rate	64/96/128/ 192/256/320kbps		
DVB-T (Optional)	Standard	DVB-T		
	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, 4K, 8K		
	MER	About 40 dB		
	RF frequency	50~960MHz, 1KHz step		
	RF Out	4*DVB-T carriers combined output		
	RF out level	-20~ -3dbm, 0.1db step		
DVB-C (Optional)	Standard	J.83A (DVB-C), J.83B, J.83C		
	MER	About 40dB		
	RF frequency	50~960MHz, 1KHz step		
	RF out level	-20~ +3dbm, 0.1db step		
	Symbol rate	3.000~9.000Msps adjustable		
	RF Out	4*DVB-C carriers combined output		
		J.83A	J.83B	J.83C
	Constellation	16/32/64/12 8/256QAM	64/ 256 QAM	64/ 256 QAM
	Bandwidth	8M	6M	6M

General	ATSC (Optional)	Standard	ATSC A/53
		RF frequency	50~960MHz, 1KHz step.
		RF Out	4*ATSC carriers combined output
		RF out level	-20~ +3dbm, 0.1db step
		Constellation	8VSB
	ISDB-T (Optional) (under developing)	Standard	ARIB STD-B31
		Bandwidth	6M
		Constellation	QPSK, 16QAM, 64QAM
		Guard Interval	1/32, 1/16, 1/8, 1/4
		Transmission Mode	2K, 4K, 8K
		MER	About 40dB
		RF frequency	50~960MHz, 1KHz step
		RF Out	1*ISDBT;
		RF out level	-20~ +3dbm, 0.1db step
	System	Local interface	LCD + control buttons
		Remote management	Web NMS
		Stream Out	2 ASI out (BNC type, same one TS, mirror as MPTS or SPTS)
			DVB-C/DVB-T/ATSC: IP (4 MPTS & 2 SPTS) out over UDP, RTP/RTSP (4 RF carriers out) ISDB-T: IP (1 MPTS & 2 SPTS) out over UDP, RTP/RTSP (1 RF carrier out)
		DATA Port	1000M
NMS interface		RJ45, 100M	
Language		English	
Physical Specification		Power supply	100~240VAC, 50/60Hz
		Dimensions	482*242*44mm
		Operation temp	0~45℃

Principle Chart



Updated on Feb 6th, 2023