



NDS3542B

Encoder Modulator

4* CVBS/HDMI/YPbPr/CC → DVB-C/DVB-T/ISDB-T/ATSC RF
--- MPEG2 HD & MPEG4 AVC/H.264 HD Encoding



Product Overview

NDS3542B series products are DEXIN's all-in-one devices which integrate encoding (MPEG-2, MPEG-4/AVC H.264) and modulation to convert HDMI/YPbPr /CVBS (Pr in) signals etc to digital RF output.

To meet customers' various requirements, NDS3542B is also equipped with 1 ASI input, and output with 2 ASI ports and 1 IP port.

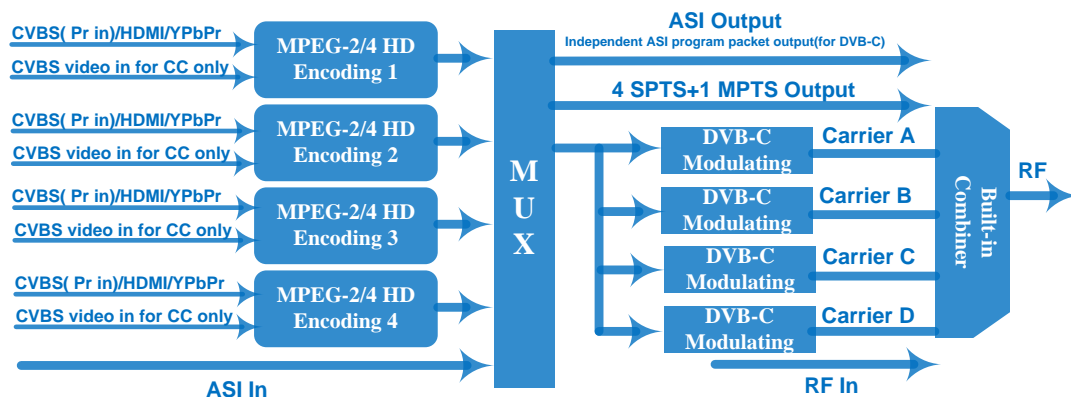
The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, and antenna etc. Its output signals are to be received by TVs, STB and etc with corresponding standard.

Dexin NDS3542B series products are widely used in public places such as metro, market hall, theatre, hotels, restaurants and etc for advertising, monitoring, training and educating in company, schools, campuses, hospital... It's a good choice to offer HD channels and more.

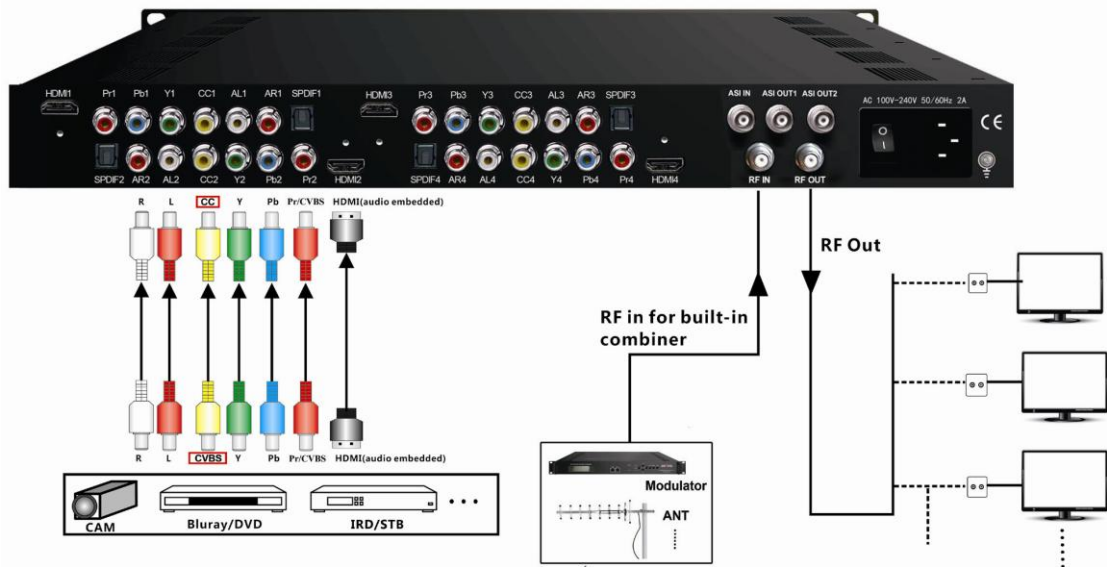
Key Features

- MPEG2 HD & MPEG4 AVC H.264 HD video encoding
- DD AC3 (2.0), MPEG4-AAC, MPEG2-AAC, MPEG1 Layer II audio encoding
- Support DD AC3 (2.0/5.1/7.1) passthrough (for HDMI interface only)
- 4* HDMI/YPbPr/CVBS (Pr in) channels in
- 1*ASI in for re-mux; 1*RF in for RF mix
- 2*DVB-T RF out (4* DVB-C RF, 2*ISDB-T,4*ATSC out optional); ASI out; IP out
- **Support EAS control for DVB-C and ATSC RF out--Optional**
- Support CC (Closed Caption) EIA608, (from CVBS source only)
- Support Low Delay
- LCN (Logical Channel Number) support
- VCT (Virtual Channel Table) support— for DVB-C and ATSC
- Excellent modulation quality
- LCD display, Remote control and firmware
- Web-based NMS management; Updates via web

Principle Chart



For DVB-T output, it is designed to support 2 adjacent carriers
 For ISDB-T output, it is designed to support 2 adjacent carriers
 For ATSC output, it is designed to support 4 adjacent carriers
 MPTS is available for DVB-C/ATSC out versions



Specifications

Encoding Section

Video (HDMI)

Encoding	MPEG2; MPEG4 AVC/H.264
Interface	HDMI*4
Resolution	1920*1080_60P, 1920*1080_50P (For MPEG 4 AVC/H.264 only), 1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P
Low Delay	Normal, Mode 1, Mode 2
Aspect Ratio	4:3; 16:9

Audio (HDMI)

Encoding	MPEG1 Layer II; MPEG2-AAC; MPEG4-AAC; DD AC3 (2.0) Optional; DD AC3 (2.0/5.1/7.1) passthrough
Interface	HDMI*4 /SPDIF*4
Sample rate	48KHz
Bit rate	64/96/128/ 192/256/320kbps

Video (CVBS/YPbPr)

Encoding	MPEG2; MPEG4 AVC/H.264
Interface	CVBS/YPbPr*4 (RCA)
Resolution	CVBS: 720*576_50i, 720*480_60i YPbPr:1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P

Audio (L/R)

Encoding	MPEG1 Layer II; MPEG2-AAC; MPEG4-AAC; DD AC3 (2.0) Optional
Interface	1*Stereo/2*mono/1*SPDIF per channel
Sample rate	48KHz
Bit rate	64/96/128/ 192/256/320kbps

DVB-T Modulator Section (Option)

Standard	EN300744
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FFT mode	2K, 8K
Bandwidth	6M, 7M, 8M
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC	1/2, 2/3, 3/4, 5/6, 7/8
MER	≥42dB
RF frequency	30~960MHz, 1KHz step
RF out	COFDM DVB-T out (2 carriers combined out)
RF output level	-30~-10dbm (81~97 dbμV), 0.1db step

DVB-C Modulator Section (Option)

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	5.000~9.000Mpsps adjustable
RF Out	4*DVB-C adjacent carriers combined output

	J.83A	J.83B	J.83C
Constellation	16/32/64/128/ 256 QAM	64/ 256 QAM	64/ 256 QAM
Bandwidth	8M	6M	6M

ISDB-T Modulator Section (Option)

Standard	ARIB STD-B31
Constellation	DQPSK,QPSK, 16QAM, 64QAM
Guard Interval	1/32, 1/16, 1/8, 1/4
Transmission Mode	2K, 4K, 8K
Guard Interval	1/32, 1/16, 1/8, 1/4
Code rate	1/2, 3/4, 5/6, 7/8
RF frequency	30~999MHz, 1KHz step

ATSC Modulator Section (Option)

Standard	ATSC A/53
Constellation	8 VSB

RF output level	-30~ -10dbm (77~97 db μ V), 0.1db step
MER	\geq 42dB
RF frequency	30~999MHz, 1KHz step

System

Local interface	LCD + control buttons
Remote management	Web NMS
Stream Out	2 ASI mirrored out (BNC type, 100M); IP (4 SPTS+1MPTS) over UDP, RTP/RTSP out,RJ45, 100M (MPTS is available for

	DVB-C/ATSC out versions)
NMS interface	RJ45, 100M
Language	English

General

Power supply	AC 100V~240V
Dimensions	482*400*44mm
Weight	4.5 kg
Operation temperature	0~45 $^{\circ}$ C



All the specifications are subject to change without any further notice. All rights are reserved.