

NDS3542

HDMI/VGA →

DVB-T/DVB-C/ATSC/ISDB-T



Encoder Modulator



Portable Case

19" Rack Case

Key Features

- MPEG2 HD/MPEG4 HD video encoding
- 1* HDMI or VGA in (portable case); 2* HDMI or VGA in (19" rack case)
- 1*ASI in; 1 RF in (for combiner use)
- DVB-T, DVB-C, ATSC, ISDB-T RF out optional
- LCN (Logical Channel Number) support(DVB-C/DVB-T/ISDB-T); VCT support(ATSC)
- Excellent modulation quality MER≥42dB
- LCD display, Remote control and firmware
- Web NMS management; Updates via web
- Lowest cost per channel - breakthrough price

Product Overview

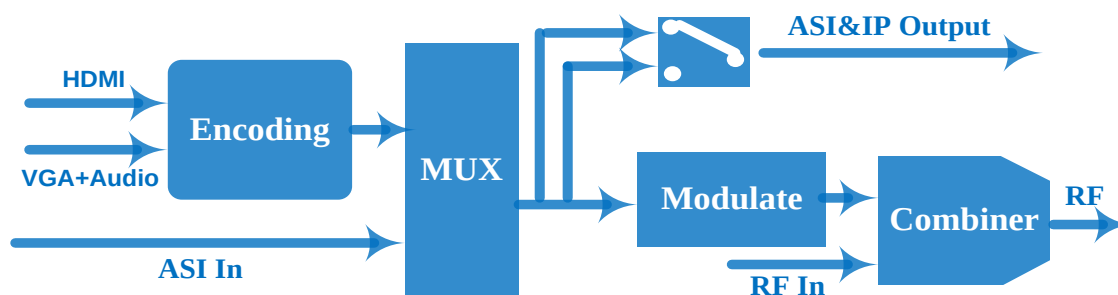
NDS3542 series products are one branch of DEXIN's knock-out all-in-one devices which integrate encoding (MPEG-2 HD, MPEG-4/AVC H.264) and modulation (DVB-C, DVB-T, ISDB-T, or ATSC) to convert V/A signals etc into RF output. This sheet is going to introduce a model which converts HDMI/VGA signals to DVB-T/DVB-C/ATSC/ISDB-T RF out in the frequency range of 30~960MHz.

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, and output with 2 ASI ports and 1 UDP 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 HD channels and more.

Principle Chart



Specifications

HDMI Encoding Section

Video

Encoding	MPEG2 HD/MPEG4 HD
Input	HDMI*1 /card
Resolution	1920*1080_60P, 1920*1080_50P, (-for MPEG4/H.264) 1920*1080_60i, 1920*1080_50i, 1280*720_60P, 1280*720_50P 720*480_60i, 720*576_50i

Audio

Encoding	MPEG1 Layer II, (MPEG2-AAC, MPEG4-AAC available)
Sample rate	48KHz
Bit rate	64kbps, 96kbps,128kbps, 192kbps, 256kbps, 320kbps

VGA Encoding Section

Video

Encoding	MPEG2 HD/MPEG4 HD
Input	VGA(VGA/SVGA/XGA/UXGA/SXGA)
Resolution	1920*1080_60P, 1280*720_60P

Audio

Encoding	MPEG1 Layer II, (MPEG2-AAC, MPEG4-AAC available)
Sample rate	48KHz
Bit rate	64kbps, 96kbps,128kbps, 192kbps, 256kbps, 320kbps

DVB-T Modulator Section

Standard	EN300744
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 output level	-30~ -10dbm(81~97 dbμV), 0.1db step

DVB-C Modulator Section (Optional)

Standard	J.83A , J.83B, J.83C
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MER	≥42dB
RF frequency	30~960MHz, 1KHz step
RF output level	-30~ -10dbm(81~97 dbμV), 0.1db step

J.83A

Constellation	16/32/64/128/256QAM
Symbol rate	5.000~9.000Msps adjustable
bandwidth	8M

J.83B

Constellation	64QAM/ 256QAM
bandwidth	6M

J.83C

Constellation	64QAM/ 256QAM
bandwidth	6M

ISDB-T Modulator Section (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 output level	-30~ -10dbm, 0.1db step

ATSC Modulator Section (Optional)

Standard	ATSC A/53
Constellation	8 VSB
RF Output Level	26~-10dbm (81~97dbμV), 0.1db step
MER	≥42dB
RF frequency	30~960MHz, 1KHz step

System

Local interface	LCD + control buttons
Remote management	Web NMS
output	2 ASI out (BNC type); IP (MPTS) out (RJ45, 100M)
NMS interface	RJ45, 100M
Language	English

General

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℃
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Ordering Guide

Our encoder & modulator series are individual-module design, and the encoding modules include:

- ✓ MPEG2 SD encoding with 1 or 2 CVBS in
- ✓ H.264 SD encoding with 1CVBS in
- ✓ MPEG4 AVC /H.264 encoding with 1 or dual SDI in
- ✓ DVB-S2/-C/ISDB/ATSC tuner input
- ✓ YPbPr +HDMI +CVBS input
- ✓ MPEG2 SD YPbPr +S-Video +CVBS input
- ✓ MPEG4 AVC/H.264 encoding with 1 or 2 HDMI input
- ✓ MPEG2 HD encoding with 1 or 2 HDMI input
- ✓ MPEG2 HD encoding with 1 SDI input
- ✓ HDMI + VGA input

Modulation modules include:

- ✓ ISDB-T RF (single/dual carriers) out module
- ✓ DVB-C RF (single/dual/quad carriers) out module
- ✓ ATSC RF (single/dual/quad carriers) out module
- ✓ DVB-T RF (single/dual carriers) out module