

HDMI/CVBS/YPbPr → DVB-T/DVB-C/ATSC RF

--- Home Version



- ◆ MPEG2 and MPEG4 HD/SD video encode
- ◆ Dolby Digital AC3 (2.0) audio encode and passthrough
- ◆ USB record, playback and upgrade
- ◆ Low Delay

A device that allows audio and video signal input in TV distributions and video recorded and playback through a USB port, with applications in home entertainment, Digital Signage for hotels, shops, restaurants etc...

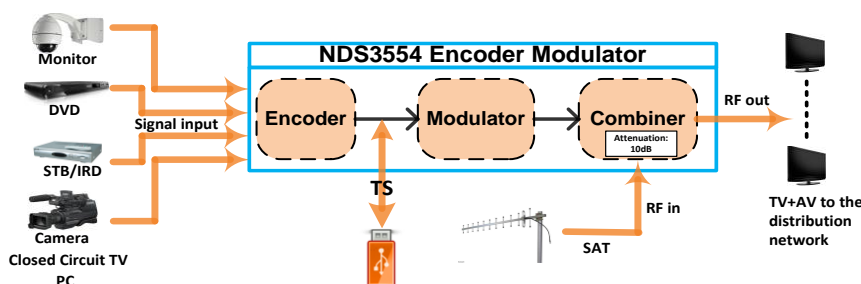
Product Overview

NDS3554 series encoder & modulator is DEXIN's consumer electronics which allow audio/video signal input in TV distributions with applications in home entertainment, hotel Digital Signage, shops etc.

It is an all-in-one device integrating MPEG2 HD/SD and MPEG4 AVC H.264 HD/SD encoding and modulating to convert video/audio signals to digital RF out in the frequency range of 30~960MHz.

The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, and antenna etc. Its output signal is to be received by TVs or STBs etc.

Principle Chart



Technical Specifications

Encoding Section

Interface	Video	Encoding	MPEG-2, MPEG-4 AVC/H.264
		Interface	HDMI*1
HDMI	Resolution	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
		Bit rate	0.500~19.500 Mbps
HDMI	Audio	Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, DD AC3 2.0 (Optional) AC3 Passthrough
		Interface	HDMI
		Sample rate	48KHz
		Bit rate	64, 96, 128, 192, 256, 320, 384kbps
		Encoding	MPEG-2, MPEG-4 AVC/H.264
YPbPr/ CVBS	Video	Interface	CVBS *1, YPbPr*1
		Resolution	CVBS: 720x576_50i (PAL); 720x480_60i (NTSC) YPbPr: 1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P
		Bit rate	0.500~19.500 Mbps
		Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC; DD AC3 2.0 (Optional)
		Interface	1 Stereo /2 mono
YPbPr/ CVBS	Audio	Sample rate	48KHz
		Bit rate	64, 96, 128, 192, 256, 320, 384kbps

DVB-T Modulator Section

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 output level	-16~ -36 dBm (71~91 dBμV), 0.1db step

DVB-C Modulator Section (Option)

Standard	J.83A (DVB-C)	J.83B	J.83C
Constellation	16/32/64/128 /256 QAM	64/ 256 QAM	64/ 256 QAM
Bandwidth	8M	6M	6M
MER	≥43dB		
RF frequency	30~960MHz, 1KHz step		
RF level	-16~ -36dbm(71~91 dBμV), 0.1db step		
Symbol rate	5000-9000 Ksps		

ATSC Modulator Section (Option)

Standard	ATSC A/53
MER	≥42dB
RF frequency	30~960MHz, 1KHz step
RF output level	-16~ -36 dBm (71~91 dBμV), 0.1db step
Constellation	8VSB

System

Management	Local control: LCD + control buttons
Language	English
LCN Insertion	yes

General

Power supply	DC 12V
Dimensions	144*238*52mm
Weight	Approx 1kg
Operation temperature	0~45°C

USB Recorder & Player



TS Recorder and Save:

- NDS3554 can encode the source video to *.ts files and save them through the USB flash drive.
- Connect the signal source to NDS3554 and start encoding process.
- Start the record process and save the TS generated to the USB flash drive.

*.ts Video Creation Software:

- Users can also create *.ts videos containing pictures, videos and music with our creator software on a PC and save them into the USB flash drive.
- Drag the files to "Creator" application. Formats supported include:
Image: JPG, PNG, BMP, GIF
Audio: MP3, WAV
Video: WMV, MPG, MP4, TS, AVI...
- Start the conversion process to generate *.ts videos



TS Playback:

- Insert the USB flash drive with *.ts videos in NDS3554 and play back the content in an easy way.
- A single video can be up to 2G in size and multi videos can be played on a loop.



USB Flash Drive Specifications Required:

- Standard: High Speed 2.0
- File System: FAT 32
- Memory: 32G is suggested



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Typical Applications

...for communities of residents
an information channel on their television



...for restaurants
information about daily menus ,special deals,etc



...for hotels
meeting rooms,exhibitions,message,etc



...for hospitals
training courses, healthy guide, etc



...for Public Spaces
adversing,user information,news,etc



...for shopping centres
new collections,special deals,etc



Create your own advertising and information channel using only your NDS3554 Encoder Modulator

Technical Compare

Main Features	DEXIN NDS3554/NDS3556	Competing Products
Encode	<ul style="list-style-type: none"> ● MPEG2 HD/SD; MPEG4 HD/SD 	<ul style="list-style-type: none"> ● MPEG2 SD
Record TS to USB memory	<ul style="list-style-type: none"> ● Yes (NDS3554&NDS3556) 	<ul style="list-style-type: none"> ● No
*.ts files play-mode	<ul style="list-style-type: none"> ● Both Multi/Single files loop ● Support HD&SD video play 	<ul style="list-style-type: none"> ● Single file loop ● Support only SD video play
TS Creator.exe	<ul style="list-style-type: none"> ● HD video to HD video transform ● Null Packet Filter, effect bitrate up to 90% ● Support output video size, rate, and format control 	<ul style="list-style-type: none"> ● HD video to SD video downscale ● No Null Packet Filter, effect bit rate only around 50%
Single video length	<ul style="list-style-type: none"> ● 2-3 Hours HD/SD 	<ul style="list-style-type: none"> ● 40 Minutes SD
Low Delay	<ul style="list-style-type: none"> ● Supported 	<ul style="list-style-type: none"> ● Not supported
DD AC3 (2.0) audio encode	<ul style="list-style-type: none"> ● Supported 	<ul style="list-style-type: none"> ● Not supported



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