

NDS3554 HD Video to Digital RF encoder modulator



Product Overview

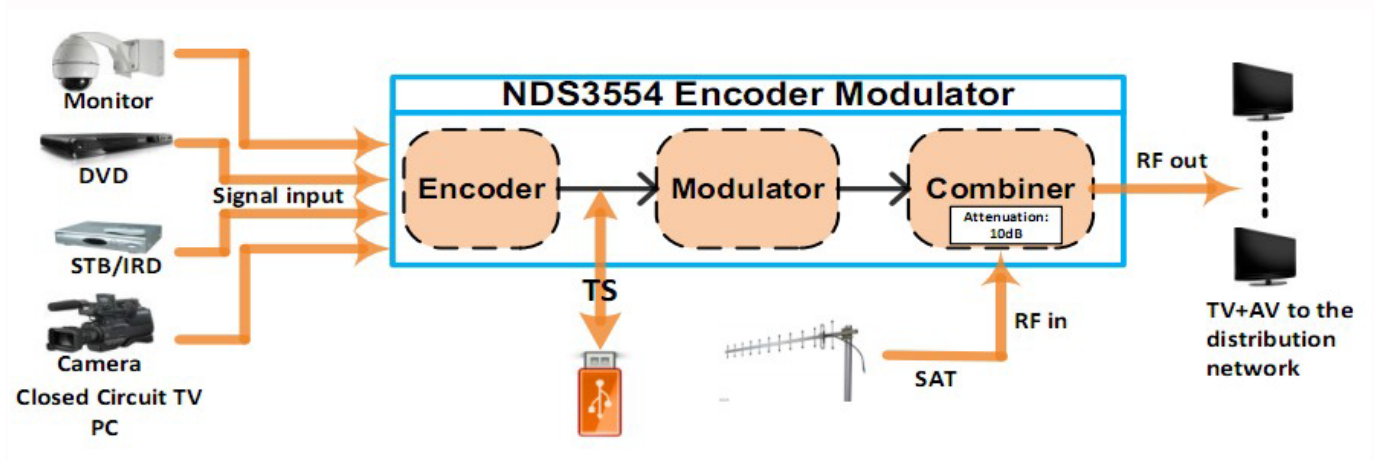
NDS3554 series encoder & modulator is DEXIN's consumer electronics which allow audio/video signal input in TV distributions with applications in home entertainment, hotel Digital Signage, shops etc. It is an all-in-one device integrating MPEG2 HD/SD and MPEG4 AVC H.264 HD/SD encoding and modulating to 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.

Key Features

- MPEG2 and MPEG4 HD/SD video encode
- Dolby digital AC3 (2.0) audio encode, AC3 pass through (for HDMI interface only)
- USB record, playback and upgrade
- Low Delay

Principle Chart

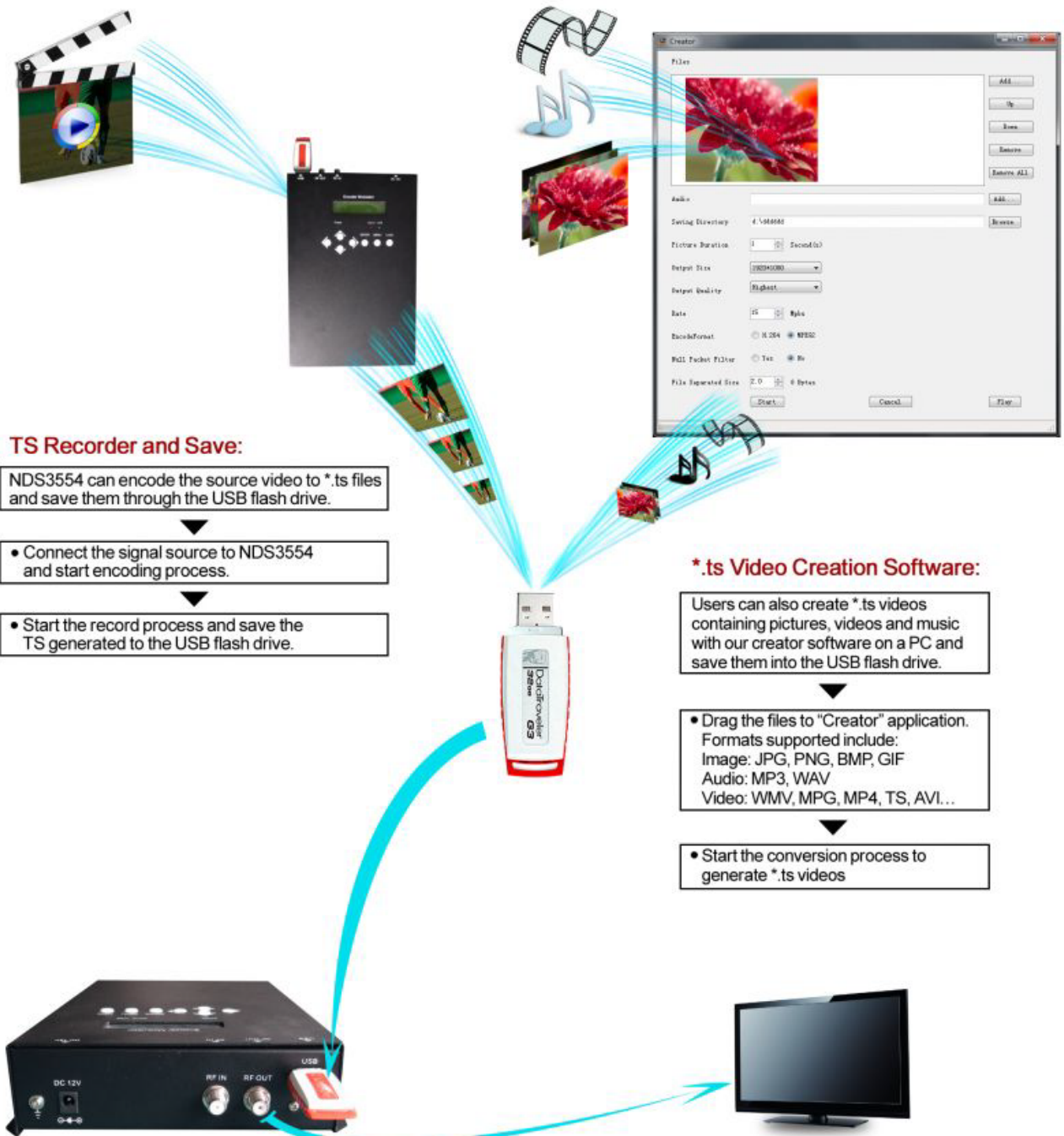


Technical Specifications

Encoding Section			
HDMI	Video	Encoding	MPEG-2, MPEG-4 AVC/H.264
		Interface	HDMI*1
		Resolution	1920*1080_60P, 1920*1080_50P à (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
	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
YPbPr/ CVBS	Video	Encoding	MPEG-2, MPEG-4 AVC/H.264
		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
	Audio	Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC; DD AC3 2.0 (Optional)
		Interface	1 Stereo /2 mono
		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), 0.1 db 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		
ISDB-T Modulator Section (Option)			
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	-16~ -36 dBm (71~91 dbμV), 0.1db step		
System			
Management	Local control: LCD + control buttons		
Language	English		
LCN Insertion	yes		

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