



NDS3536S (V2)

Encoder Modulator



OSD (Logo/Caption/QR Code) Insertion



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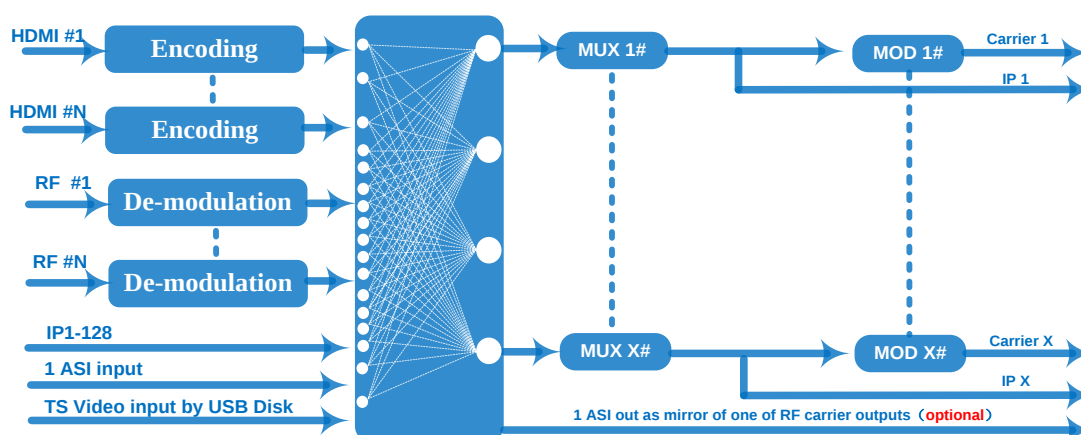
Product Overview

NDS3536S (V2) is a professional and high integration device which includes encoding (and de-modulation), multiplexing, and modulation functions in one case. It supports 8/16/24 HDMI (or HDMI plus tuner mix input) inputs, 1 ASI input, 1 USB player input and 128 IP inputs via the GE port, and output by multiple DVB-C (or DVB-T/ATSC/ISDB-T optional) carrier channels. It also supports MPTS output as mirror of carriers through the GE port and 1 ASI out as mirror of one of the carriers. This full function device makes it ideal for a small CATV head end system, and it's a smart choice for hotel TV system, entertainment system in sports bar, hospital, apartment...

Key features

- 8/16/24 HDMI (or HDMI plus DVB-S/S2/S2X/C/T/(T)/ISDB-T tuner) inputs,
- HEVC/H.265, MPEG-4 AVC/H.264 Video encoding
- 1 ASI input for re-mux
- 1 USB Player (Insert the USB Flash drive with “xxx.ts” videos in NDS3536S and play back the content in an easy way; file system FAT 32)
- 128 IP input over UDP and RTP via GE port
- Each carrier out channel process maximum 32 IP from the GE port (UDP&RTP protocol)
- MPEG1 Layer II, LC-AAC and HE-AAC Audio encoding, AC3 Pass Through and audio gain adjustment
- Support 16/32ch DVB-C RF out (8ch/16ch DVB-T, 16/32ch ATSC, or 16ch ISDB-T out for option, as per order)
- Support 1 ASI out as mirror of one of RF output carriers---Optional
- Support IP MPTS or SPTS output over UDP, RTP/RTSP
- Support LOGO, Caption and QR code insertion (Language Supported: 中文, English, العربية, ไทย, हिन्दी, русский, اردو, for more languages please consult us...)
- Support PID remapping/ accurate PCR adjusting/PSI/SI editing and inserting
- Control via web management, and easy updates via web

Principle Chart



Technical Specifications

Input	8/16/24 HDMI inputs for option (or HDMI and different Tuner mix input, details pls check below order guide)		
	1 ASI in for re-mux		
	1 USB Player input for re-mux (“xxx.ts” video)		
	128 IP input over UDP and RTP, GE port, RJ45		
Video (HDMI Input)	Resolution	Input	1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i, 720×480_60i,
		Output	1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, 720×576_25P, 720×480_30P,
	Encoding	HEVC/H.265, MPEG-4 AVC/H.264	
	Bit-rate	1Mbps~13Mbps each channel	
	Rate Control	CBR/VBR	
	GOP Structure	IP...P (P Frame adjustment, without B Frame)	
	Encoding	MPEG-1 Layer 2, LC-AAC, HE-AAC and AC3 Pass through	
	Sampling rate	48KHz	
	Resolution	24-bit	
	Audio Gain	0-255 Adjustable	
Audio (HDMI Input)	MPEG-1 Layer 2 Bit-rate	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps	
	LC-AAC Bit-rate	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps	
	HE-AAC Bit-rate	48/56/64/80/96/112/128 kbps	
Tuner Section	DVB-S	Input Frequency	950-2150MHz
		Symbol Rate	0.5~45 Msps
		Constellation	QPSK
		FEC	1/2, 2/3, 3/4, 5/6, 7/8
	DVB-S2	Input Frequency	950-2150MHz
		Symbol Rate	QPSK/8PSK/16APSK: 0.5~45 Msps 32APSK: 0.5~40 Msps
		Constellation	QPSK/8PSK/16APSK/32APSK
		FEC	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 32APSK: 3/4, 4/5, 5/6, 8/9
		Max input bitrate per tuner	≤170 Mbps
	DVB-S2X	Symbol Rate	QPSK/8PSK/16APSK: 0.5~45 Msps; 8APSK/32APSK: 0.5~40 Msps
		Constellation	QPSK/8PSK/16APSK/8APSK/32APSK
		FEC	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20

			8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10, 23/36, 25/36, 13/18 8APSK: 5/9-L, 26/45-L 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36, 2/3-L, 25/36, 13/18, 7/9, 77/90 32APSK: 3/4, 4/5, 5/6, 8/9, 2/3-L, 32/45, 11/15, 7/9
		Max input bitrate per tuner	≤170 Mbps
	Signal Strength	-65 ~ -25dBm	
Multiplexing	Maximum PID Remapping	256 input per channel	
	Function	PID remapping (automatically or manually)	
		Accurate PCR adjusting	
		Generate PSI/ SI table automatically	
Modulation	DVB-C	QAM Channel	16/32 non-adjacent carriers output (maximum bandwidth 192MHz)
		Standard	EN300 429/ITU-T J.83A/B
		MER	≥40db
		RF frequency	50~960MHz, 1KHz step
		RF output level	-20~+3dbm, 0.1db step
		Symbol Rate	5.0Msps~7.0Msps, 1ksps stepping
			J.83A J.83B
		Constellation	16/32/64/128/256QAM 64/256 QAM
		Bandwidth	8M 6M
	DVB-T	Standard	EN300744
		FFT mode	2K,4K, 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	≥42 dB
		RF frequency	50~960MHz, 1KHz step
		RF out	8 (or 16) non-adjacent carriers output (maximum bandwidth 192MHz)
		RF output level	-28~ -3dBm, 0.1db step
	ATSC	Standard	ATSC A/53
		Bandwidth	6M
		Constellation	8VSB
		FEC	RS(208 188)+Trellis
		MER	≥40dB
		ACL	-55 dBc
		RF frequency	50~960MHz, 1KHz step
		RF out	16/32 non-adjacent carriers output

			(maximum bandwidth 192MHz)
		RF output level	-20~+3dbm (for all carriers), 0.5db stepping
	ISDB-T	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
		Code rate	1/2, 2/3, 3/4, 5/6, 7/8
		MER	≥40dB
		RF frequency	50~960MHz, 1KHz step
		RF out	16 non-adjacent carriers output (maximum bandwidth 192MHz)
		RF output level	-20dBm~+3dBm, 0.1dB stepping
Stream output	1 ASI output as mirror of one of RF output carriers (Optional) MPTS output over UDP and RTP/RTSP as mirror of modulation carriers SPTS output (available for models of 32ch DVB-C, 16ch DVB-T, 32ch ATSC and 16ch ISDB-T) , 1*1000M Base-T Ethernet interface, GE port		
System function	Management: web-based NMS, one NMS port manage all input modules, LCD+Keyboard manage		
	Chinese and English language		
	Ethernet software upgrade		
Miscellaneous	Dimension (W×L×H)	482mm×328mm×44mm	
	Environment	0~45℃(work); -20~80℃ (Storage)	
	Power requirements	AC 110V±10%, 50/60Hz, AC 220 ±10%, 50/60Hz	

Ordering Guide

Input Section:

	HDMI	DVB-S2 /S2X	DVB-C/T/(T) /ISDB-T
Option 1	8	/	/
Option 2	16	/	/
Option 3	24	/	/
Option 4	8	8	/
Option 5	8	16	/
Option 6	16	8	/
Option 7	8	/	8
Option 8	8	/	16
Option 9	16	/	8
Option 10	8	8	8
Option 11	16	4	4

Output Section:

RF output standard		IP output	RF carrier channels
DVB-C out	V1	16x MPTS	16
	V2	32x MPTS and SPTS	32
DVB-T out	V1	8x MPTS	8
	V2	16x MPTS and SPTS	16
ATSC out	V1	16x MPTS	16
	V2	32x MPTS and SPTS	32
ISDB-T out		16x MPTS and SPTS	16



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