DEXING

NDS3542G — Encoder Modulator

4* CVBS/1024 IP ➡ 16* DVB-C Digital RF

NDS3542G Encoder Modulator

DEXING
Dexin Digital Technology Corp. Ltd.
Http://www.dsdvd.com

RF out1　RF out2　Reset　Link/Act 2 1　10/100M　Data 2　Data 1　1--CVBS/AR/AL--2　3--CVBS/AR/AL--4　AC 100V~240V 50/60Hz 2A
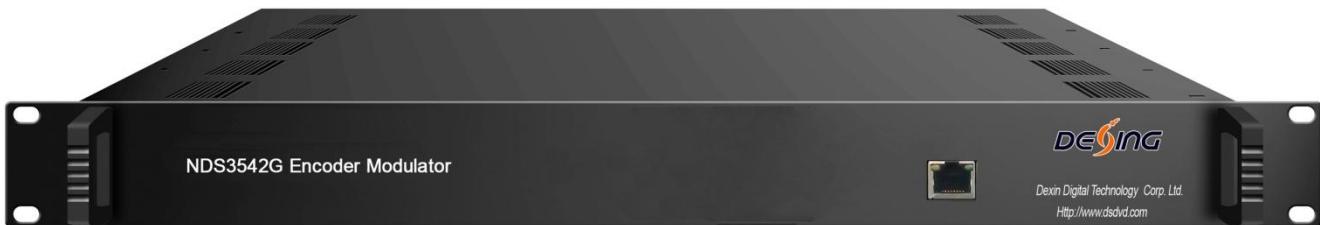
Key Features

- **4 A/V inputs with MPEG2 encoding**

- **MPEG1 Layer II, AC3 Audio encoding**

- **16 channels multiplexing+16 channels scrambling+16 channels QAM modulating**

- **Fully support DVB-C (EN300 429) and ITU-T J.83A/B**

- **Fully support DVB general scrambling system description ETR289, simulcrypt standard ETSI 101 197 and ETSI 103 197**

- **Support accurate PCR adjusting**

- **Support PSI/SI editing and inserting**

- **Excellent RF output performance index, MER≥40db**

- **Support IP input and output over UDP, RTP and RTSP**

- **Support Web management, Updates via web**

Product Overview

NDS3542G encoder modulator is DEXIN's all-in-one devices which integrate encoding (MPEG-2) and modulation (DVB-C) to convert V/A signals into RF output. It has 4 CVBS input and 16 multiplexing channels, 16 scrambling channels and 16 QAM modulating channels, and supports maximum 1024 IP input through the GE port and 16 non-adjacent carriers (50MHz~960MHz) output through the RF output interface. The device is also characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation CATV broadcasting system.

Principle Chart
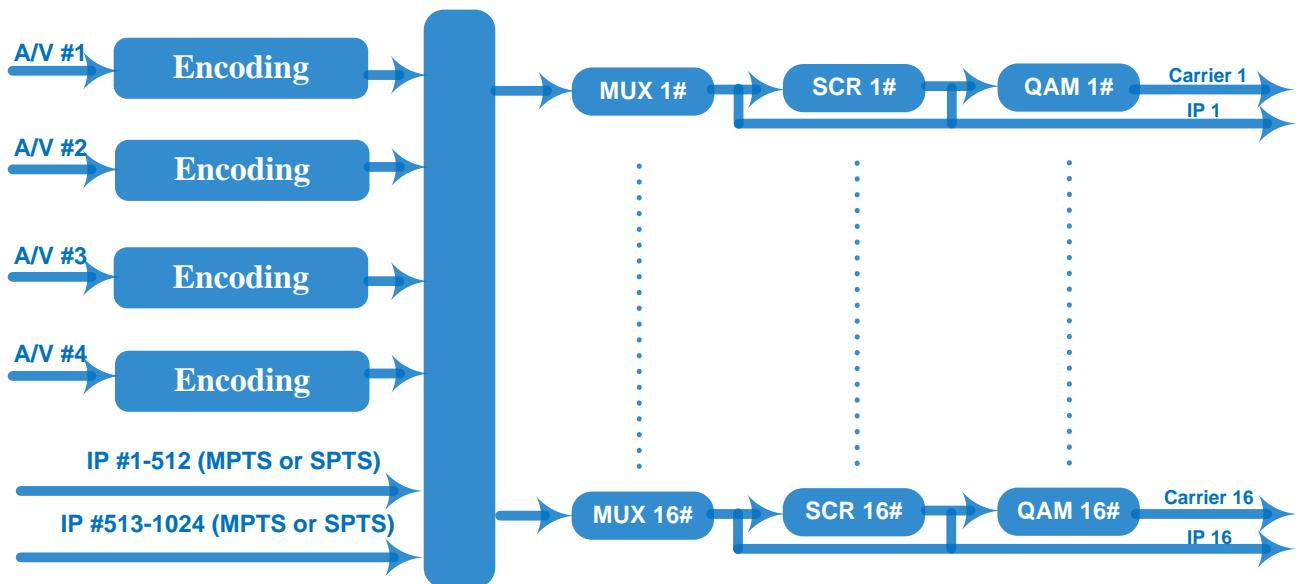
Specification

Input		4 CVBS inputs , BNC interface
		4 pairs unbalanced stereo audio input, BNC interface
		2 GE port for IP input (UDP/RTP/RTSP), 512 IP/GE
Video	Resolution	720×480_60i, 544×480_60i, 352×480_60i 352×240_60i,320×240_60i,176×240_60i, 176×120_60i
		720×576_50i,704×576_50i,640×576_50i, 352×288_50i 320×288_50i, 176×288_50i, 176×144_50i,
	Encoding	MPEG-2
	Bit-rate	0.1Mbps~8Mbps each channel
	Rate Control	CBR/VBR
	GOP Structure	IBBPB

	Advanced Pretreatment	De-interlacing, noise reduction	
Audio	Encoding	MPEG-1 Layer 2, AC3	
	Sampling rate	48KHz	
	Resolution	24-bit	
	Bit-rate	128Kbps,192kbps,256kbps,320kbps,384kbps each channel	
Multiplexing	Maximum PID Remapping	180 input per channel	
	Function	PID remapping (automatically or manually)	
		Accurate PCR adjusting	
		Generate PSI/ SI table automatically	
Scrambling	Maximum simulcrypt CA	4	
	Standard	EN300 429/ITU-T J.83A/B	
	Connection	Local/remote connection	
Modulation	QAM Channel: 16 Standard: EN300 429/ITU-T J.83A/B MER: ≥40db RF frequency: 50~960MHz, 1KHz step RF output level: -20~+10dbm (87~117 dbμV), 0.1db step Symbol Rate: 5.0Msps~7.0Msps, 1ksps stepping Constellation: 16/32/64/128/256QAM		
		J.83A	J.83B
	Constellation	16/32/64/128/256QAM	64/256 QAM
	Bandwidth	8M	6M
Stream output	RF output (F type interface)		
	16 IP output over UDP/RTP/RTSP, 2*100/1000Base-T Ethernet interface		
System function	LCD/keyboard, network management(WEB)		
	Chinese and English language		
	Ethernet software upgrade		
Miscellaneous	Dimension(W×L×H)	482mm×410mm×44mm	
	Approx weight	8kg	
	Environment	0~45℃(work); -20~80℃（Storage）	
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz	
	Power consumption	20W	