



NDS3343D-E

MUX-Scrambling QAM Modulator



Product Outline

NDS3343D-E 4 in 1 mux-scrambling encoder modulator is a high performance and cost-effective mux-scrambling encoding QAM modulator designed by Dexin. It has multiple input ports optional. After encoding, multiplexing, scrambling and QAM modulating process, then it gives RF output. To meet customers' various requirements, this device is also equipped with Tuner input to extend the signal source. Its pluggable structure design greatly facilitates the change of modules (demodulator or encoder ect) as needed.

The device is also characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation CATV broadcasting system.



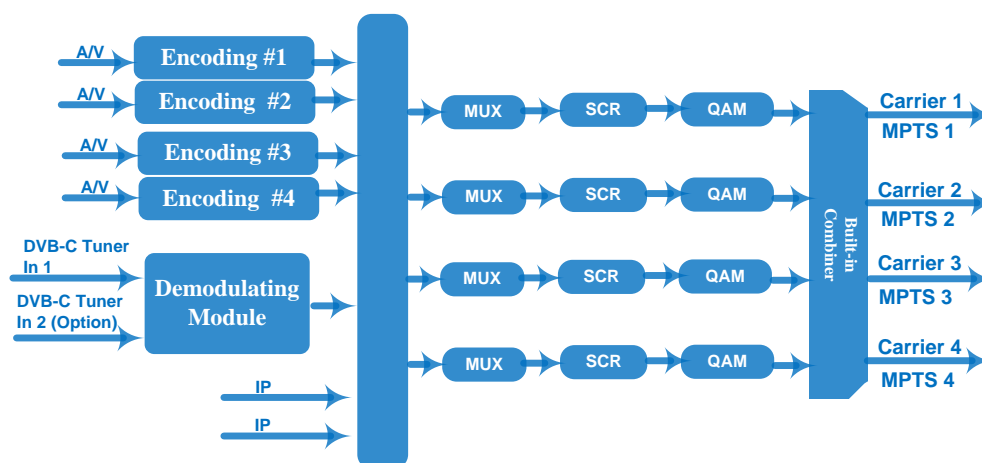
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Key Features

- 4 A/V (Component/Composite/S-video available) inputs with MPEG2 encoding
- 1 or 2 DVB-C Tuner input for re-mux; 2 IP input for re-mux
- 4 channels multiplexing+4 channels scrambling+4 channels QAM modulating
- Fully support DVB-C (EN300 429) and ITU-T J.83A/B/C
- 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 \geq 40db
- Support IP output over UDP
- Support LCD display and keyboard
- Support Web management, Updates via web and USB

Inner Principle (per daughter module)



Specifications

Input	1 or 2 DVB-C Tuner input for remux ; 2 IP input for remux	
	4 CVBS/YPbPr/S-Video Input for encoding	
Tuner Input (DVB-C)	Standard	J.83A(DVB-C), J.83B, J.83C
	Input frequency	30MHz-1000Mhz
	Constellation	16/32/64/128/256 QAM

Encoding	Video	Format: MPEG-2 MP@ML (4:2:0) Interface: S-Video/YPbPr/CVBS*4 Bitrate: 1-19.5Mbps Resolution: 720*480_60i, 720*576_50i Rate mode: VBR/CBR Chroma: 4:2:0 Aspect: 16:9,4:3		
	Audio	Format: MPEG1 Layer II Sampling: 48KHz Bitrate: 64kbps, 96kbps, 128kbps, 192kbps, 256kbps, 320kbps		
Multiplexing	Maximum PID Remapping	128per input 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/C		
	Connection	Local/remote connection		
Modulation	QAM Channel: 4 Standard: EN300 429/ITU-T J.83A/B/C MER: ≥40db RF frequency: 30~999MHz, 1KHz step RF output level: -20~0dbm(87~107 dbμV), 0.1db step Symbol Rate: 5.0Msps~9.0Msps, 1ksps stepping Constellation: 16/32/64/128/256QAM			
		J.83A	J.83B	J.83C
	Constellation	16/32/64/128/256QAM	64/256 QAM	64/256 QAM
	Bandwidth	8M	6M	6M
System	Local interface: LCD + control buttons Remote management: Web NMS Stream Out: IP over UDP out (RJ45, 1000M, Unicast/Multicast) Language: English Software Upgrading: Web and USB			
General	Dimension(W*D*H): 482mm×300mm×44.5mm Weight: 3.7kg Temperature: 0~45°C (Operation) ; -20~80°C (Storage) Power: AC 100V±10%/50/60Hz; AC 220V±10%, 50/60HZ Consumption: 25W			