DESING

NDS3548B

Encoder Modulator

Product Overview

NDS3548B 8 in 1 Encoder/Modulator is an all-in-one device integrated encoding multiplexing and modulation functions in one standard 1U case. It can convert 8 CVBS signals and 1 ASI input to DVB-C RF out in the frequency range of 30~950MHz. It is also equipped with 2 ASI ports and IP port to output TS in MPTS or SPTS.

The signals source could be from satellite receivers, closed-circuit television cameras and etc. its output signal is to be received by DVB-C standard TVs or DVB-C STBs.

The device can be used in public place such as metro, market hall, theatre, hotels, resorts, etc for advertising. It also can be used for monitoring, training and educating in company, schools, campuses, hospital.

Key Features

- **Support 8 CVBS input and 1 ASI Input for re-mux**
- **Support H.264 & Mpeg2 video encoding**
- **Support PAL, NTSC SD signal**
- **MPEG1 Audio Layer 2 & LC-AAC audio encoding**

- **Support VBR/CBR video encoding**
- **Support Low Latency function**
- **DVB-C RF output compliant with J.83A/B/C**
- **Supports MPTS or 8 SPTS IP (UDP, RTP/RTSP) Output**
- **Supports IP null packet filter**
- **Excellent modulation quality**
- **LCD / keyboard and web NMS operation**
- **Update device through NMS port**

Technical Specification

Input	8 CVBS inputs , BNC interface		
	8 pairs unbalanced stereo audio input, BNC interface		
	1 ASI input, BNC interface		
Video	Resolution	PAL:720*576i; NTSC: 720*480i	
	Encoding	MPEG-2; H.264	
	Bit-rate	0.5~15Mbps for H.264 encoding	
		1~15Mbps for MPEG-2 encoding	
	Rate Control	CBR/VBR	
	Aspect Ratio	4:3, 16:9	
	Advanced Pretreatment	De-interlacing, Noise Reduction, Sharpening	
Audio	Encoding	MPEG1 Audio Layer 2; LC-AAC	
	Sampling rate	48KHz	
	Bit-rate	32Kb/s~384Kb/s for LC-AAC encoding (each channel);	
		64Kb/s~384Kb/s for Mpeg1 layer 2 encoding (each channel)	
Modulation	Standard	J.83A, J.83B, J.83C	
	MER	≥42dB	
	RF frequency	30~950MHz, 1KHz step	
	RF output level	-30.0~ 0.0 dbm (77~107 dbµV), 0.1db step	
	Symbol rate	2.5 – 4.66 Msps, 5.0 - 8.0 Msps	
	J.83A	Constellation	16/32/64/128/256QAM
		bandwidth	8M
	J.83B	Constellation	64QAM, 256QAM
		bandwidth	6M
	J.83C	Constellation	64QAM, 256QAM
		Bandwidth	6M
Multiplexing	1 ASI input multiplexed with local 8 channels of TS		
Stream Output	2*ASI output, BNC interface		
	MPTS/8*SPTS over UDP or RTP/RTSP, 100Base-T Ethernet interface (UDP/RTP/RTSP unicast / multicast)		
System Function	Low Latency achieved (Normal, mode 1 and mode 2 optional)		
	LCD/keyboard and Web-based NMS operating		
	System Language: English		
	Ethernet software & hardware upgrade		

Miscellaneous	Dimension (W× L× H)	482mm×410mm×44mm
	Approx weight	4kg
	Temperature	0~45℃(work), -20~80℃（Storage）
	Power	AC 100V-220V±10%, 50/60Hz
	Consumption	25W

Principle Chart