NDS3348C

4 in 1 DVB-C Modulator

4 CI Slots = 4*CAM + 4*Smartcard

Outline

NDS3348C is a high performance and cost-effective DVB-C modulator designed by Dexin. It has 8 tuner inputs, after multiplexing, scrambling and modulating process, then it gives 4 DVB-C non-adjacent carriers output. To meet customers' various requirements, this device is also equipped with 128 IP input and 4 MPTS output over UDP and RTP. Its pluggable structure design greatly facilitates the change of modules as needed. Moreover, it has 4 CAM/CI slots to descramble the programs from the 4 tuner inputs in the 2 CI-Tuner Modules.

NDS3348C can be upgraded and controlled through network system, which allows it to be widely used in setting up digital broadcasting network and very adaptable to newly generation CATV broadcasting system.
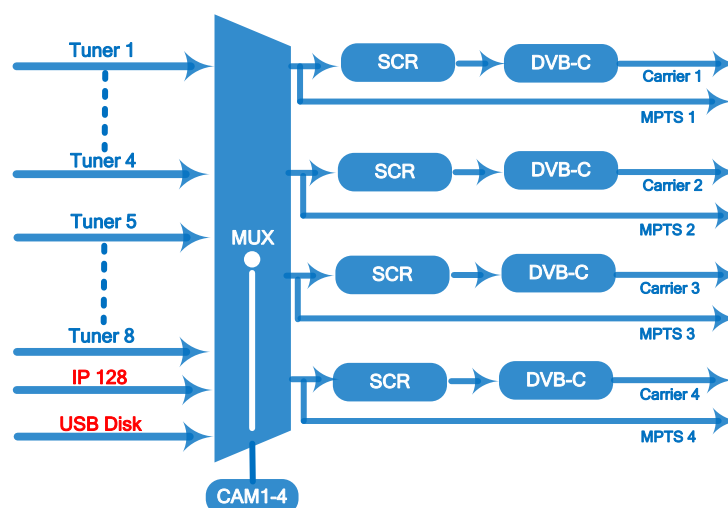
Key Features

- **DVB-S/S2/S2X tuner inputs (Supporting PLS/Multi-Stream) or DVB-T/(T)/C/ISDB-T multi-mode switchable tuner inputs, 2 types of tuner inputs for order option**

- **Pluggable Demodulation Module (4*RF in/Loop out + 4*CAM Slots)**

- **One CAM can decrypt multiple programs from the corresponding tuner input in the same one Tuner-CI module, and the 4 tuner inputs in the chassis are for FTA signals only**

- **maximum 128 IP input (MPTS/SPTS) over UDP and RTP protocol**

- **A TS playing and broadcasting via an USB Disk (FAT 32, USB 2.0)**

- **Remote reboot in Web GUI**

- **4 groups multiplexing + 4 groups scrambling + 4 groups DVB-C modulating**

- **4 IP (MPTS) output over UDP and RTP protocol**

- **Integrated demodulating and multiplexing functions**

- **Support BISS descrambling**

- **Support accurate PCR adjusting, PID Remapping, PSI/SI rebuilding and editing, A/V PID filtering**

- **Web-based NMS management**

- **Easy updating of mother board and tuner board in Web GUI**

Principle Chart

Specifications

Input	4 Tuner (DVB-C/T/(T)/S/S2/S2X/ISDBT optional) + 4 Tuner with CAM (DVB-C/T/(T)/S/S2/S2X/ATSC/ISDBT optional) 128 IP(SPTS/MPTS) input over UDP and RTP, RJ45, 1000M/100M , Unicast/Multicast **1 TS Playing via USB Disk**			
Tuner Section	Multi-mode tuners switchable **(New)**	DVB-C	Input Frequency	60~890 MHz	
			Standard	J.83A, J.83C	J.83B
			Constellation	16/32/64/128/256 QAM	64/256 QAM
		DVB-T/(T)	Input Frequency	60~890 MHz	
			Bandwidth	6/7/8 M	
		ISDB-T	Input Frequency	60~890 MHz	
	Version 1	DVB-S	Input Frequency	950-2150MHz	
			Symbol rate	0.5~45Msps	
			Signal Strength	-65~-25dBm	
			FEC	1/2, 2/3, 3/4, 5/6, 7/8 QPSK	
		DVB-S2	Input Frequency	950 ~2150MHz	
			Symbol rate	QPSK: 1~45 Msps; 8PSK: 0.5~45 Msps	
			FEC	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10	
			Constellation	QPSK, 8PSK	
	Version 2 **(New)**	DVB-S	Input Frequency	950 ~2150MHz	
			Symbol rate	0.5~45Msps	
			Signal Strength	- 65- -25dBm	
			FEC	1/2, 2/3, 3/4, 5/6, 7/8	
			Constellation	QPSK	
			Max input bitrate	≤129Mbps	
		DVB-S2	Input Frequency	950 ~2150MHz	
			Symbol rate	QPSK/8PSK /16APSK :0.5~45 Msps 32APSK: 0.5~40Msps;	
			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, 9/10	
			Constellation	QPSK, 8PSK, 16APSK, 32APSK	
			Max input bitrate	≤129 Mbps	
		DVB-S2X	Input Frequency	950 ~2150MHz	
			Symbol rate	QPSK/8PSK /16APSK :0.5~45 Msps 8APSK/32APSK: 0.5~40Msps	
			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 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
			Constellation	QPSK, 8PSK, 8APSK, 16APSK, 32APSK
			Max input bitrate	≤129 Mbps
		ATSC-T	Input Frequency	54~858MHz
			Bandwidth	6M
			Constellation	8VSB
Descrambling	CAM/CI		4 sets	
BISS Descrambling	Mode 1, Mode E (descramble individual program)			
Multiplexing	Maximum PID Remapping	256 per input channel		
	Function	A/V PID filtering		
		PID Remapping		
		Accurate PCR adjusting		
		Generate PSI/SI table automatically		
Scrambling	Maximum simulcrypt CA	4		
	Standard	ETR289, ETSI 101 197, ETSI 103 197		
	Connection	Local/remote connection		
Modulation	DVB-C	Standard	J.83A (DVB-C), J.83B,	
		MER	≥43dB	
		RF frequency	50~960MHz, 1KHz step	
		RF output level	-25~ -1dbm(83~107 dbμV), 0.1db step	
		Symbol rate	5.000~7.000Msps adjustable	
		RF Out	4*DVB-C non-adjacent carriers combined output, 40M total bandwidth limitation	
		Constellation	J.83A	J.83B
			16/32/64/128/256QAM	64/256 QAM
		Bandwidth	8M	6M
Stream out	4*MPTS over UDP and RTP out (RJ45, 1000M/100M Unicast/Multicast)			
System	web-based NMS support			
	Ethernet software upgrading			
General	Dimension	482mm×300mm×44.5mm (W*D*H)		
	Temperature	0~45℃(Operation) ; -20~80℃(Storage)		
	Power	AC 100V ±1050/60Hz; AC 220V ±10%, 50/60HZ		

Updated date: Feb 8, 2025