

Outline

NDS3394C is a high performance and cost-effective QAM modulator designed by Dexin. It supports 16 DVB-C (DVB-T/-(T)/-S/-S2/S2X, ATSC, ISDB-T Optional) FTA tuner input, maximum 512 IP input through GE1 and TS input for re-mux through 2 ASI ports. After multiplexing, scrambling and QAM modulating, it gives 16 non-adjacent carriers output and 1 IP (MPTS) output through GE1.

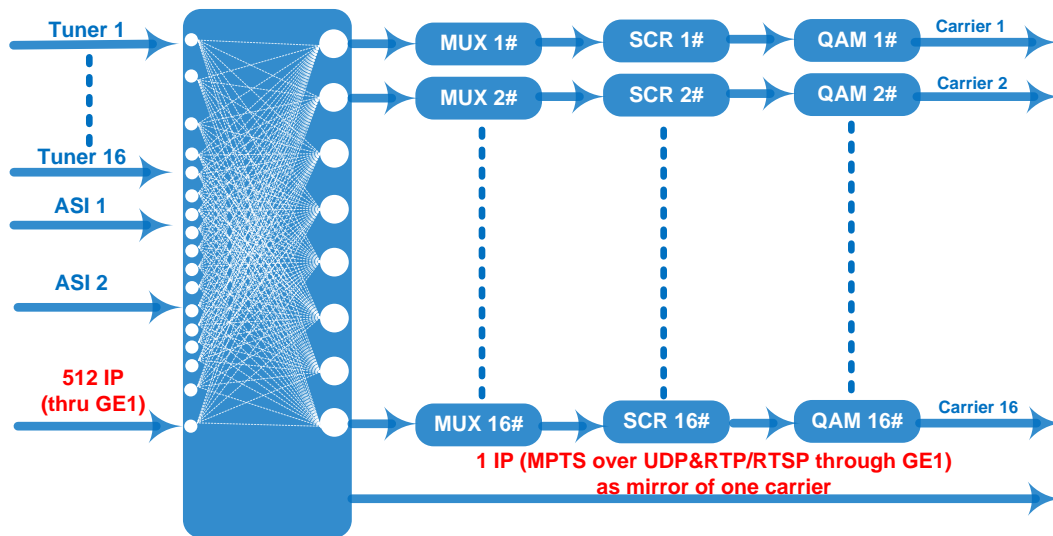
NDS3394C is also characterized with high integrated level, high performance and low cost. It supports dual power supply (optional). This is very adaptable to newly generation CATV broadcasting system.

Key Features

- 16 DVB-C (DVB-T/-(T)/-S/-S2/-S2X, ATSC, ISDB-T Optional) FTA Tuner + 2 ASI input+512 IP input thru GE1 over UDP and RTP protocol
- 16*DVB-C RF output

- 1 IP (MPTS) output over UDP and RTP/RTSP, as mirror of one carrier
- Support 16 groups multiplexing+16 groups scrambling +16 groups QAM modulating
- Excellent RF output performance index, MER≥40db
- Support accurate PCR adjusting
- Support PSI/SI editing and inserting
- Support Web management, Updates via web
- Redundancy Power Supply (optional)

Working Principle



Specifications

Input	16 DVB-C (DVB-T/(T)/-S/-S2/-S2X, ATSC, ISDB-T Optional) FTA Tuner			
	512 IP input through GE1 over UDP and RTP protocol			
	2 ASI input, BNC interface			
Tuner Section	Multi-mode tuners switchable (New)	DVB-C	Standard	J.83A(DVB-C), J.83B, J.83C
			Frequency In	60~890MHz
			Constellation	16/32/64/128/256 QAM
		DVB-T/(T)	Frequency In	60~890MHz
			Bandwidth	6/7/8 M bandwidth
			Frequency In	60~890MHz
	Version 1	DVB-S/S2	Frequency In	950~2150MHz
			Symbol rate	QPSK 1~45Mbauds 8PSK 1~45Mbauds
Code rate			1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10	
Constellation			QPSK, 8PSK	

	Version 2 (New)	DVB-S	Frequency In	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	≤129 Mbps
		DVB-S2	Frequency In	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	Frequency In
		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, 9/10, 2/3-L, 32/45, 11/15, 7/9
		Constellation		QPSK, 8PSK, 8APSK, 16APSK, 32APSK
		Max input bitrate		≤129 Mbps
		ATSC		Frequency In
			Bandwidth	6M
Constellation	8VSB			
Multiplexing	Maximum PID Remapping	360 output per channel		
	Function	PID remapping (automatically or manually)		
		Accurate PCR adjusting		
		Generate PSI/SI table automatically		
Scrambling Parameters	Max simulcrypt CA	4		
	Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197		
	Connection	Local/remote connection		
Modulation	QAM Channel	16 non-adjacent carriers output		
	Standard	EN300 429/ITU-T J.83A/B		

	MER	≥40db	
	RF frequency	50~960MHz, 1KHz step	
	RF output level	-20~+10dbm(87~107 dbμV),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
Stream out	16 RF output (F type interface)		
	1 IP (MPTS) output over UDP and RTP/RTSP (GE1 only), as mirror of one carrier		
System	Network management (WEB)		
	Chinese and English language		
	Ethernet software upgrade		
General	Dimension(W*D*H)	482mm×300mm×44.5mm	
	Temperature	0~45℃(Operation) ; -20~80℃(Storage)	
	Power	AC 100V±1050/60Hz; AC 220V±10%, 50/60HZ	