NDS3394C-24

24 in 1 Mux scrambling QAM Modulator

Outline

NDS3394C is a high performance and cost-effective QAM modulator designed by Dexin. It supports 24 or 16 DVB-S2 FTA tuner input, maximum 128 IP input through GE1 and TS input for re-mux through ASI ports. After multiplexing, scrambling and QAM modulating, it gives 16 non-adjacent carriers output and 16 IP (MPTS) output through GE2.
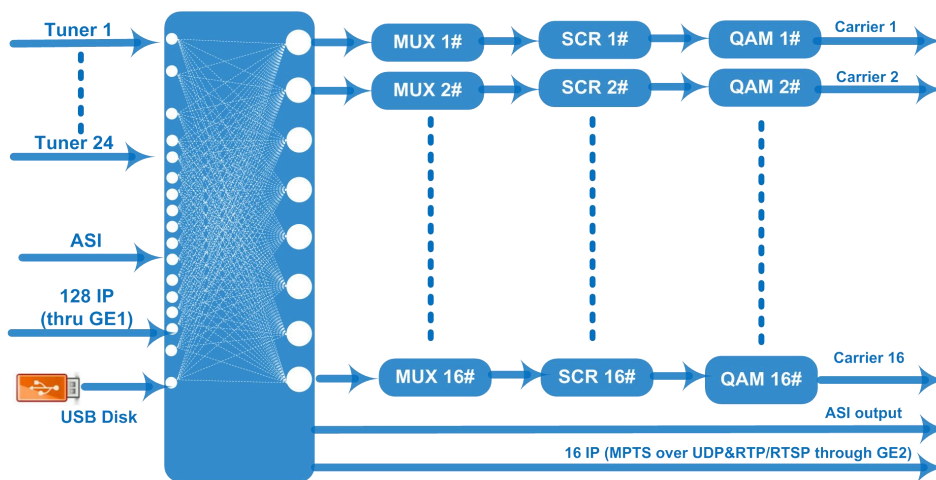
NDS3394C is also characterized with high integrated level, high performance and low cost. It supports dual power supply (optional). This is very adaptable to newly generation CATV broadcasting system.

Key Features

- **24 (or 16) DVB-S2 FTA Tuner + 1 ASI input+128 IP input thru GE1 over UDP and RTP protocol, and TS files input and playing via the USB disk (FAT 32)**

- **16*DVB-C RF output**

- **16 IP (MPTS) output over UDP and RTP/RTSP, as mirror of the carriers**

- **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				
	24 or 16 DVB-S/S2/S2X FTA Tuner input as per order			
	128 IP input through GE1 over UDP and RTP protocol			
	1 ASI input, BNC interface			
	TS files input and playing via the USB disk (FAT 32)			
	Tuner	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	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, 9/10, 2/3-L, 32/45, 11/15, 7/9	
		Constellation	QPSK, 8PSK, 8APSK, 16APSK, 32APSK	
		Max input bitrate	≤129 Mbps	
Multiplexing	Max PID Remapping		360 output per channel	
	Function		PID remapping (automatically or manually)	
			Accurate PCR adjusting	
			Generate PSI/SI table automatically	
Scrambling Parameters	Max simulscrypt 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)			
	16 IP (MPTS) output over UDP and RTP/RTSP (thru GE2), 2 ASI output(one as mirror)			
System	Network management (WEB)			
	Chinese and English language			
	Ethernet software upgrade			
General	Dimension (W*D*H)		482mm×230mm×44mm	
	Temperature		0~45℃(Operation) ; -20~80℃(Storage)	
	Power		AC 100V±1050/60Hz; AC 220V±10%, 50/60HZ	