

## Outline

NDS3394T is a high performance and cost-effective DVB-T modulator designed by Dexin. It supports 16 FTA tuners input, maximum 256 IP input through GE1&GE2 and TS input for re-mux through 2 ASI ports. After BISS descrambling (only for NDS3394T version B), multiplexing and DVB-T modulating, it gives 8 non-adjacent carrier output and 8 IP (MPTS) output as mirror of carriers through GE1.

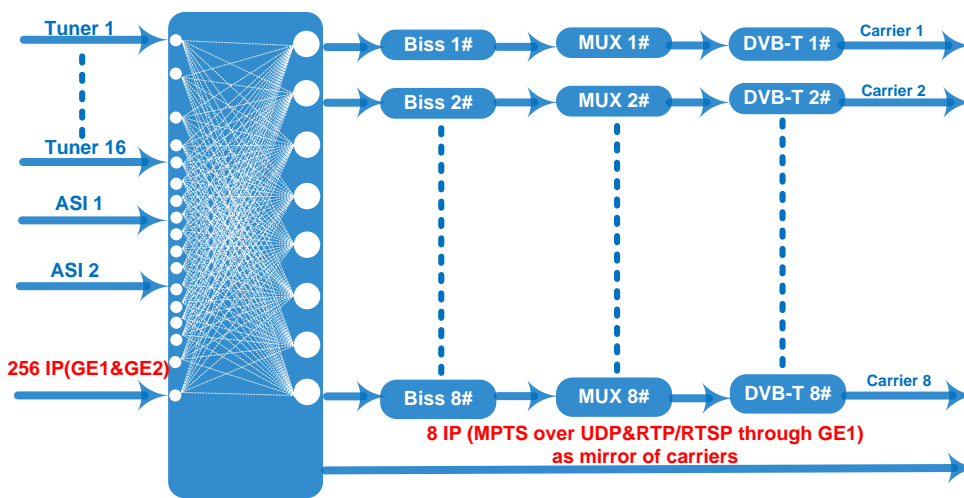
NDS3394T is also characterized with high integrated level, high performance and low cost. It supports dual power supply (optional). This is very adaptable to newly generation broadcasting system.

## Key Features

- 16 DVB-C (DVB-T/-T)/-S/-S2/-S2X, ATSC, ISDB-T Optional) FTA Tuner + 2 ASI input+256 IP input over UDP and RTP protocol
- 8\*DVB-T RF output

- 8 IP (MPTS) output over UDP and RTP/RTSP, as mirror of carriers
- Support 8 groups BISS descrambling (only for NDS3394T version B)+8 groups multiplexing +8 groups DVB-T modulating
- Support accurate PCR adjusting, PSI/SI editing and inserting, A/V PID filtering
- 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 (DVB-S2X is only for NDS3394T version B)			
	256 IP (GE1&GE2) input over UDP and RTP protocol			
	2 ASI input, BNC interface			
Tuner Section		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
			ISDB-T	Frequency In
	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 (For NDS3394T version B)	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	≤120 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	≤120 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	≤120 Mbps	
		ATSC		Frequency In	30~1000MHz
Bandwidth	6M				
Constellation	8VSB				
<b>BISS Descrambling</b>	Mode 1, Mode E (descramble individual program) (only for NDS3394T version B)				
<b>Multiplexing</b>	Maximum PID Remapping	256 output per channel			
	Function	PID remapping (automatically or manually)			
		A/V PID filtering (not for NDS3394T version B)			
		Accurate PCR adjusting			
	Generate PSI/SI table automatically				
<b>Modulation</b>	Standard	EN300 744			
	FFT	2K 4K 8K			
	Bandwidth	6M, 7M, 8M			
	Constellation	QPSK, 16QAM, 64QAM			

	Guard interval	1/4, 1/8, 1/16, 1/32
	FEC	1/2, 2/3, 3/4, 5/6, 7/8
	MER	≥42 dB
	RF out	8 non-adjacent carrier output
	RF frequency	50~960MHz
	RF output level	-20~+10dBm, 0.1dB step
<b>Stream out</b>	8 DVB-T RF output (F type interface)	
	8 IP (MPTS) output over UDP and RTP/RTSP (GE1 only), as mirror of carriers	
<b>System</b>	Network management (WEB)	
	Chinese and English language	
	Ethernet software upgrade	
<b>General</b>	Dimension(W*D*H)	482mm×300mm×44.5mm
	Temperature	0~45℃(Operation) ; -20~80℃(Storage)
	Power	AC 100V±10%/60Hz; AC 220V±10%, 50/60HZ

## Order Guide

	NDS3394T	NDS3394T (version B)	NDS3394C
DVB-S2X tuner in	×	√	√
Biss descrambling	×	√	×
Scrambling	×	×	√
A/V PID filtering	√	×	×
IP Input	256	256	512
IP Output	8 MPTS	8 MPTS	1 MPTS



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