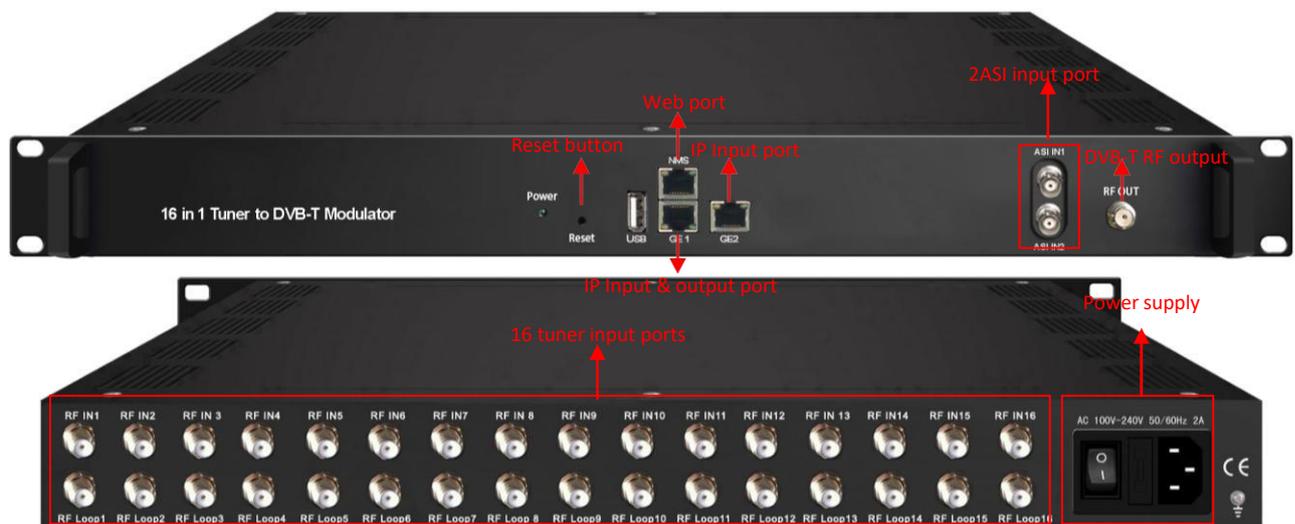# SOFTEL

SFT3394T

16 in 1 Tuner to DVB-T modulator

Outline

SFT3394T is a high performance and cost-effective DVB-T modulator designed by SOFTEL. 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 SFT3394T 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.

SFT3394T 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 SFT3394T 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
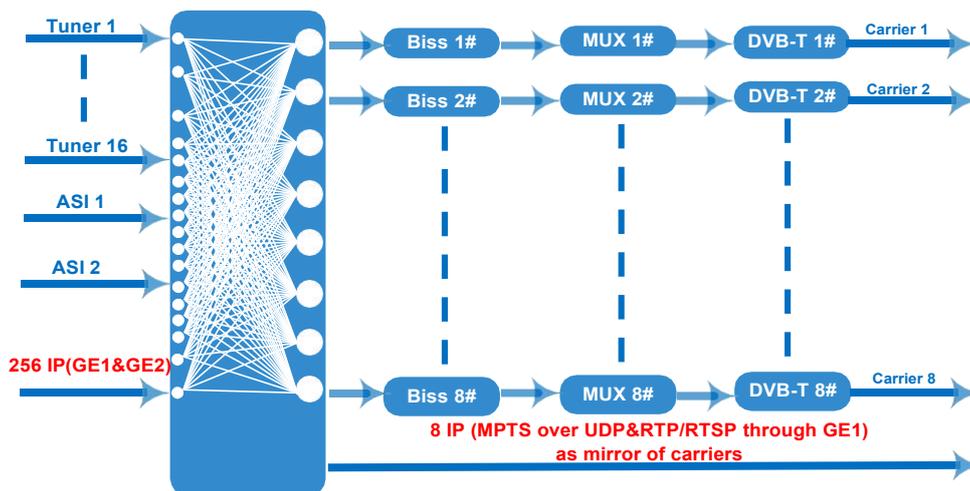
Specifications

Input	16 DVB-C (DVB-T/(T)/-S/S2/S2X, ATSC, ISDB-T optional) FTA Tuner (DVB-S2X is only for SFT3394T 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	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
	Version 2 (For SFT3394T version B)	DVB-S	Constellation	QPSK, 8PSK
			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
BISS Descrambling	Mode 1, Mode E (descramble individual program) (only for SFT3394T version B)			
Multiplexing	Maximum PID Remapping	256 output per channel		
	Function	PID remapping (automatically or manually)		
		A/V PID filtering (not for SFT3394T version B)		
		Accurate PCR adjusting		

		Generate PSI/SI table automatically
Modulation	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
Stream out	8 DVB-T RF output (F type interface)	
	8 IP (MPTS) output over UDP and RTP/RTSP (GE1 only), as mirror of carriers	
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

Order Guide

	SFT3394T	SFT3394T (version B)	SFT3394C
DVB-S2X tuner in	×	√	√
Biss descrambling	×	√	×
Scrambling	×	×	√
A/V PID filtering	√	×	×
IP Input	256	256	512
IP Output	8 MPTS	8 MPTS	1 MPTS