SOFTEL

SFT3332D
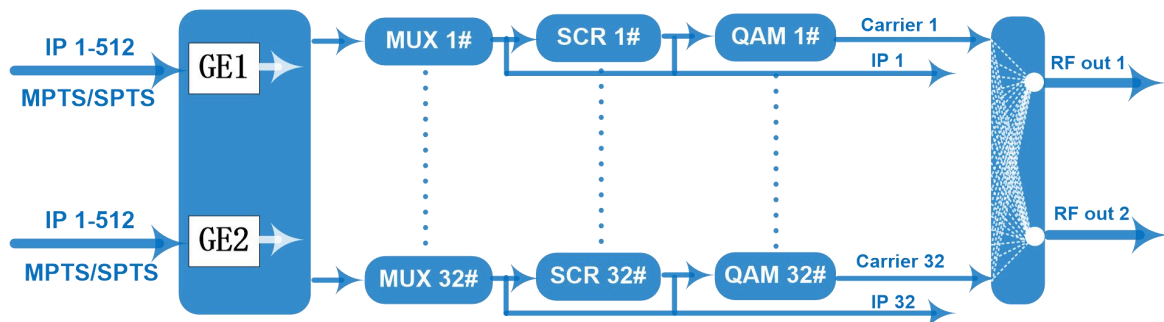## IP MUX Scrambling QAM Modulator

Product Overview

SFT3332 (-D) IP QAM modulator is Mux-scrambling-modulating all-in-one device developed by SOFTEL. It has 32 multiplexing channels, 32 scrambling channels and 32 QAM (DVB-C) modulating channels, and supports maximum 1024 IP input through the GE port and 32 non-adjacent carriers (50MHz~960MHz) output through the RF output interface. The device is characterized with dual RF output ports which broaden the bandwidth for QAM carriers.
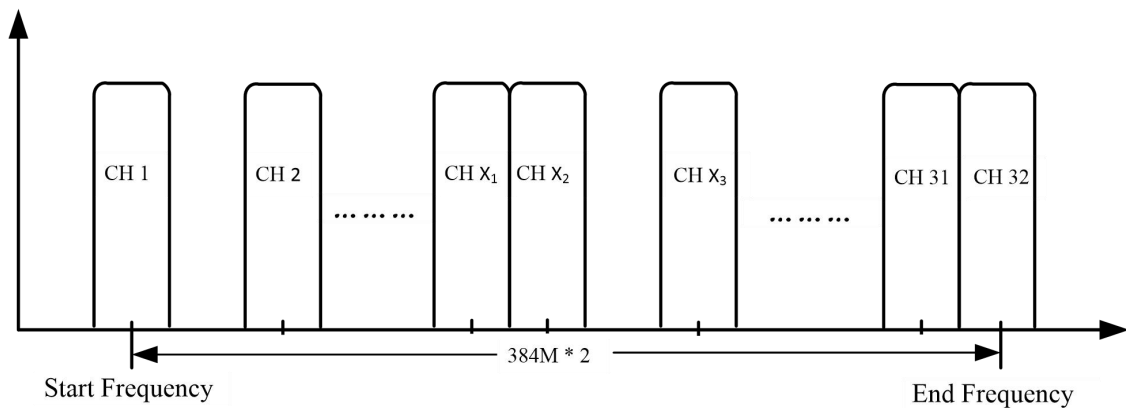
Key Features

- **2 GE input, Data1 and Data2 (SFP interface optional)**
- **Supports up to 1024 IP input through GE1 & GE2 over UDP/RTP**

- **Max 840Mbps for each GE input**

- **Supports accurate PCR adjusting, CA PID filtering, PID remapping and PSI/SI editing**

- **Supports up to 256 PID remapping per channel**

- **Support DVB general scrambling system (ETR289), simulcrypt standards ETSI 101 197 and ETSI 103 197**

- **Support 32 multiplexed or scrambled IP out over UDP/RTP/RTSP**

- **32 non-adjacent QAM carriers output with 2 RF ports, compliant to DVB-C (EN 300 429) and ITU-T J.83 A/B**

- **Supports RS (204,188) encoding**

- **Support Web-based Network management**

Inner Principle Chart

Carrier Setting Illustration

Specifications

Input	Input	512×2 IP input, 2*100/1000M Ethernet Port(SFP interface optional)	
	Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3	
	Transmission Rate	Max 840Mbps for each GE input	
Mux	Input Channel	1024	
	Output Channel	32	
	Max PIDs	256 per channel	
	Functions	PID remapping(auto/manually optional)	
		PCR accurate adjusting	
		PSI/SI table automatically generating	
Scrambling Parameters	Max simulscrypt CA	4	
	Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197	
	Connection	Local/remote connection	
Modulation Parameters	DVB-C Modulator Sectioon	J.83A	Constellation :16/32/64/128/256QAM
			Bandwidth :8M
		J.83B	Constellation :64/256QAM
			Bandwidth :6M
	QAM Channel	32 non-adjacent carrier	
	Modulation Standard	EN300 429/ITU-T J.83A/B	
	Symbol Rate	5.0~7.0Msps, 1ksps stepping	
	Constellation	16, 32, 64 , 128, 256QAM	
	FEC	RS (204, 188)	
RF Output	Interface	2 F type output ports for 32 carriers, 75Ω	
	RF Range	50~960MHz, 1kHz stepping	
	Output Level	-20dBm~+10dBm(87~117dbμV), 0.1dB stepping	
	MER	$\geq$ 40dB	
	ACLR	-60 dBc	
TS output	32 IP output over UDP/RTP/RTSP, unicast/multicast, 2*100/1000M Ethernet Ports (SFP)		
System	Network management software (NMS) supporting		
General	Demission	420mm×440mm×44.5mm (WxLxH)	
	Weight	3kg	
	Temperature	0~45℃(operation), -20~80℃(storage)	
	Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz	
	Consumption	15.4W	

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