SOFTEL

SFT3364

64 in 1 IP QAM Modulator

Product Overview

SFT3364 64 in 1 IP QAM modulator is a Multiplexing-scrambling-modulating all-in-one device developed by SOFTEL. It has 64 multiplexing channels, 64 scrambling channels and 64 QAM (DVB-C) modulating channels, and supports maximum 512 IP inputs through 6 dataports and 64 non-adjacent carriers (50MHz~960MHz) output through 2 RF output interfaces. The device is characterized with dual RF output ports which broaden the bandwidth for QAM carriers.
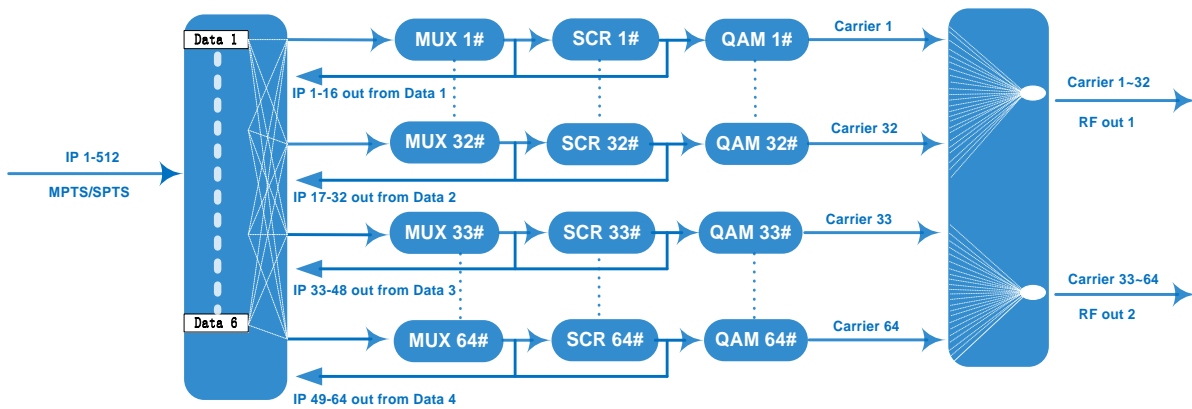
Key Features

● **6 GE inputs (4*RJ45, 2*SFP)**

● **Supports up to 512 IP inputs over UDP/RTP**

● **Max 840Mbps and 512 IP inputs for each GE input**

● **Supports multiplexing with accurate PCR adjusting, CA PID filtering, PID remapping and PSI/SI editing**

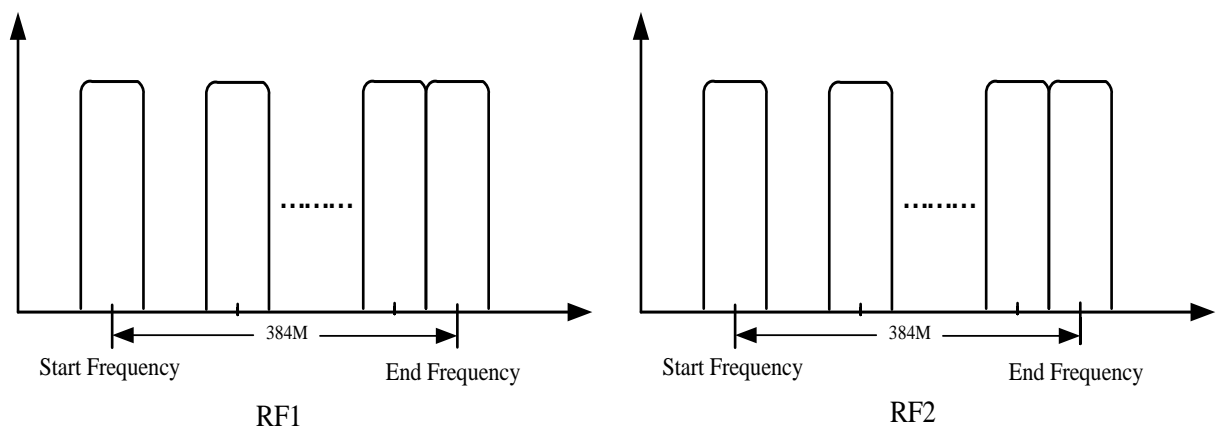● **Supports up to 256 PID remapping per channel**

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

- **Support 64 multiplexed or scrambled IP outputs over UDP/RTP/RTSP**

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

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

- **Support Web-based Network management**

Inner Principle Chart

Carrier Setting Illustration

Specifications

Input	Input	Max 512 IP inputs from 6*100/1000M Ethernet Port (4*RJ45, 2*SFP)
	Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3
	Transmission Rate	Max 840Mbps for each GE input
Mux	Input Channel	512
	Output Channel	64
	Max PIDs	256 per channel
	Functions	PID remapping(auto/manually optional)
		PCR accurate adjusting
		PSI/SI table automatically generating
Scrambling Parameters	Max simulscrypt CA	6
	Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197
	Connection	Local/remote connection
Modulation Parameters	Modulation Standard	EN300 429/ITU-T J.83A/B/C
	Constellation	J.83A — Constellation :16/32/64/128/256QAM / Bandwidth :8M; J.83B/C — Constellation :64/256QAM / Bandwidth :6M
	QAM Channel	64 non-adjacent carriers, 384Mbps bandwidth for each RF interface
	Symbol Rate	5.0~7.0Msps, 1ksps stepping. 5057Ksps (J.83B, 64QAM) ; 5361Ksps (J.83B, 256QAM)
	Constellation	16, 32, 64 , 128, 256QAM
	FEC	RS (204, 188)
RF Output	Interface	2 F type output ports for 64 carriers, 75Ω
	RF Range	50~960MHz, 1kHz stepping
	Output Level	-20dBm~+10dBm(87~117dbμV), 0.1dB stepping
	MER	≥ 40dB
TS output	64 IP output over UDP/RTP/RTSP, unicast/multicast, 4*100/1000M Ethernet Ports (each port for 16 IP outputs)	
System	Web-based Network management	
General	Demission	420mm×440mm×44.5mm (WxLxH)
	Temperature	0~45℃(operation), -20~80℃(storage)
	Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz