DHP200C

10G IP QAM Processor

Product Overview

DHP200C 10G IP QAM processor is an all-in-one device developed by DEXIN which integrates multiplexer, scrambler and modulator in one body with maximum 112 DVB-C QAM channels output. With 10G switch built in, it can process 10G optical signal to work as a traditional QAM modulator.

The device is equipped with one fixed 64ch QAM card and another card slot to expand qam card (16/32/48QAM optional). Its high density helps operators to save cost to the most extent.

Key Features

- **Support 3 SFP+ (10G)/SFP(1G) ports input & output from front panel, or RJ45 GE port input & output from daughter cards**
- **High density, modularized plug-in design, 1U chassis with max 2 QAM cards**
- **Support multiplexer and scrambler with 6 CAS Simul-cryption**
- **Maximum 112 non-adjacent QAM carriers output**
- **Supports accurate PCR adjusting/CA filtering, PID remapping and PSI/SI editing**
- **Web-based Network management**

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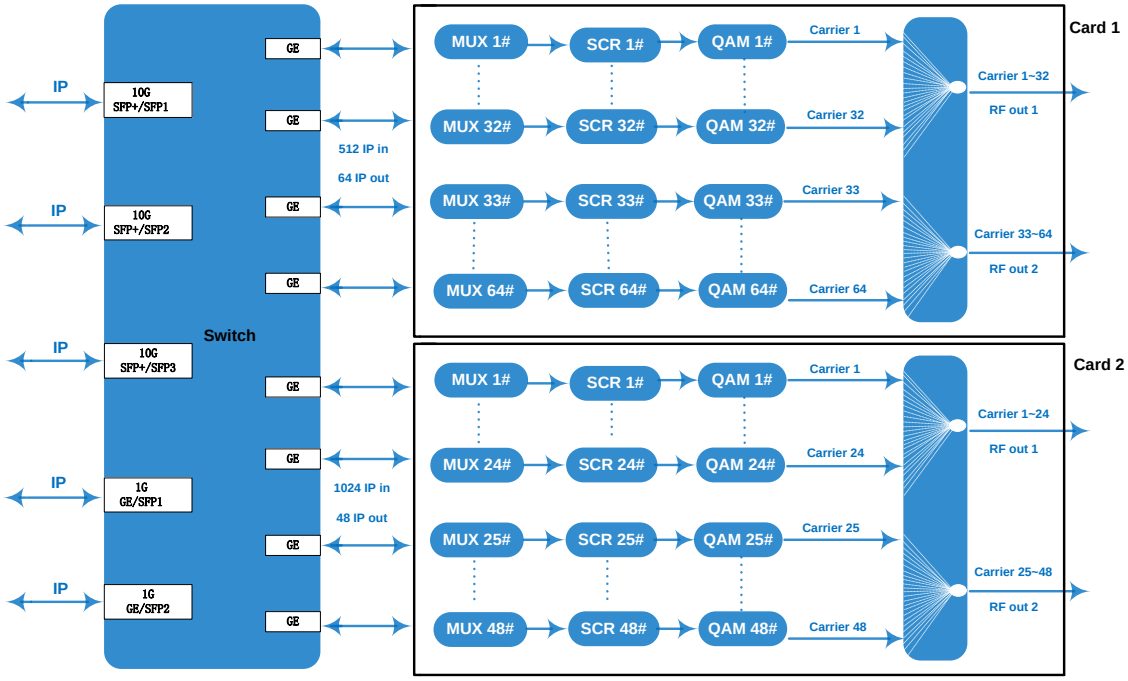
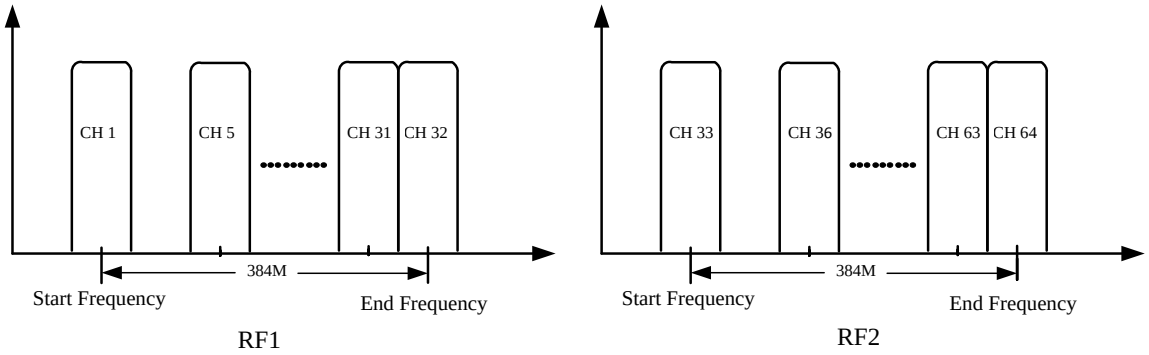
Inner Principle Chart (Example: one 64qam card + one 48qam card)



Carrier Setting Illustration (Example: 64qam card)



Specifications

Input	Input from Front Panel	Max 512 IP in per card through SFP+/SFP ports 1-3
	Input from Daughter Card	IP from 2 GE ports (SFP port optional)
	Transmission Rate	Max 9600Mbps for each 10G SFP+/SFP input
	Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3
Mux	Max PIDs Remapping	256 per output channel
	Functions	PID remapping (auto/manually optional)
		PCR accurate adjusting
		PSI/SI table automatically generating

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Scrambling	Max simulcrypt CA	6	
	Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197	
	Connection	Local/remote connection	
Modulation	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	32/48/64/80/96/112 non-adjacent carriers output, 192 or 384Mbps bandwidth for each RF port	
	Symbol Rate	3600~7000Ksps, 1ksps stepping 5057Ksps (J.83B, 64QAM) ; 5361Ksps (J.83B, 256QAM)	
	Constellation	16, 32, 64, 128, 256QAM	
	FEC	RS (204, 188)	
RF Output	Interface (per card)	1 or 2 F type output ports for 16/32/48/64 carriers card, 75Ω. 16 or 32 ch qam card : all Carrier out thru one RF port 48ch qam card : Carrier 1~24 out thru RF1, 25~48 thru RF2 64ch qam card : Carrier 1~32 out thru RF1, 33~64 thru RF2	
	RF Range	50~960MHz, 1kHz stepping	
	Output Level	-20dBm~+10dBm(87~117dbμV), 0.1dB stepping	
	MER	≥ 40dB	
TS output	Per Daughter QAM Card	16/32/48/64 IP output over UDP/RTP/RTSP, unicast/multicast, through SFP+/SFP ports 1-3 or GE port RJ45	
System	Web-based Network management		
General	Dimension	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	
	Consumption	50W(1 daughter QAM card)/75W(2 daughter QAM cards)	

Order Guide

Options Available	**Combinations**
32ch QAM out	32qam card * 1
48ch QAM out	48qam card * 1
64ch QAM out	64qam card * 1
80ch QAM out	64qam card * 1 + 16qam card *1
96ch QAM out	64qam card * 1 + 32qam card *1
112ch QAM out	64qam card * 1 + 48qam card *1

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