



DHP200E



10G IP QAM Processor



Product Overview

DHP200E 10G IP QAM processor is an all-in-one device developed by DEXIN which integrates multiplexer, scrambler and modulator in one body with maximum 192 DVB-C QAM channels output. With 10G switch built in, it can process 10G optical signals to work as a traditional QAM modulator.

The processor is equipped with 2 cards slots to load 32/48/64 ch QAM card depends on the carriers license inside. Also it is optional with maximum 3 cards inside. Its high density helps operators to save cost to the most extent.

Key Features

- Support 4 SFP+ (10G)/4 SFP(1G) ports and 12 GE ports input & output from the front panel, SFP port 1-4 and GE port 1-4 are in the same working group (choose one to use from the



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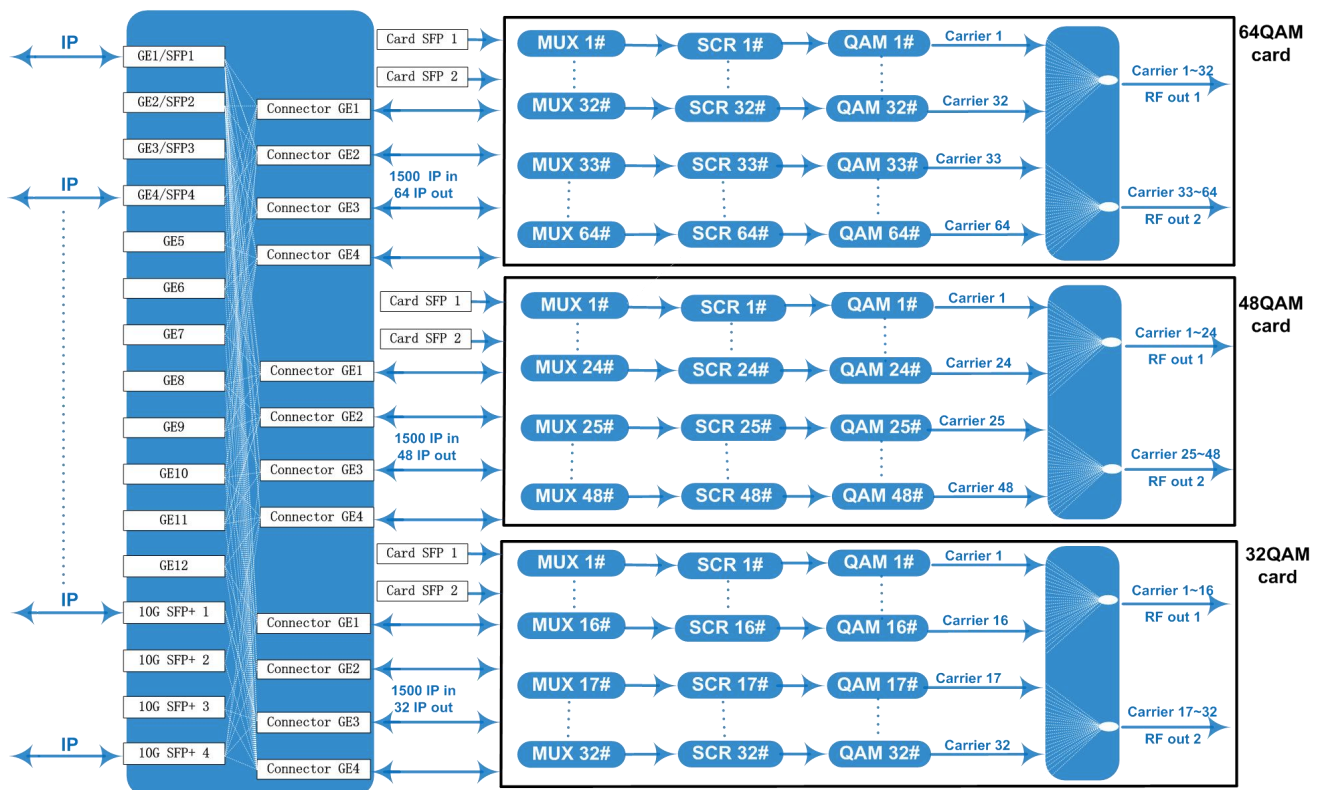
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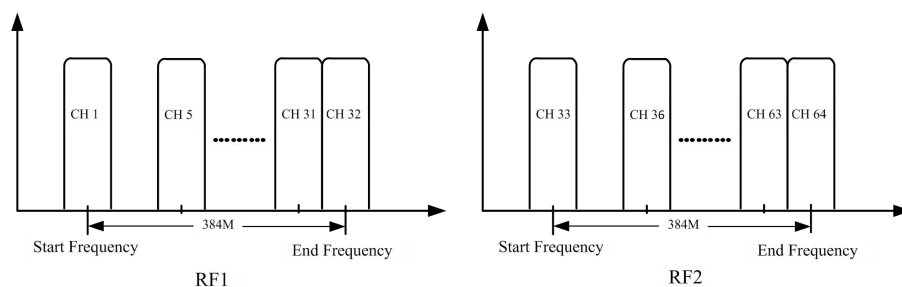
corresponding SFP port and GE port) and 2 SFP ports input(optional) per daughter card (32/48/64 QAM)

- High density, modularized plug-in design, 1U chassis with max 3 QAM cards
- Support multiplexer and scrambler with max 6 CAS Simultaneous Encryption
- Maximum 192 non-adjacent QAM carriers output if with 3 cards inside
- Flexible combination of 32QAM/48QAM/64QAM card by license
- Supports accurate PCR adjusting/CA filtering, PID remapping and PSI/SI editing
- Input Port/IP Backup function
- Web-based Network management
- Equipped with 2 card slots, optional with 3 card slots
- 1*220VAC or 2*220VAC not hot-swapping PSU option

Inner Principle Chart (Example: one 64qam card + one 48qam card + one 32qam card) with SFP ports in card



Carrier Setting Illustration (Example: 64qam card)



Specifications

Input	IP Input	Max 1500 unique IP inputs in total per card through front panel (4 SFP+, 4 SFP and 12 GE ports), Maximum 1024 unique IP inputs per card through rear panel (2 SFP ports in the card itself)	
	Transmission Rate	Max 9600Mbps for each 10G SFP+ input/Max 960Mbps for each GE and SFP input, internal data communication is maximum 4 GE per card	
	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	
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	32/48/64/80/96/112/128/144/160/176/192 non-adjacent carriers output, 384Mbps bandwidth for each RF port	
	Symbol Rate	3600~7200Ksps, 1ksps stepping 5057Ksps (J.83B, 64QAM) ; 5361Ksps (J.83B, 256QAM)	
	Constellation	16, 32, 64, 128, 256QAM	
RF Output	FEC	RS (204, 188)	
	Interface (per card)	2 F type output ports for 32/48/64 carriers card, 75Ω. 32ch/48ch/64ch qam card : Carrier 1~16/1~24/1~32 out thru RF1, 17~32/25~48/33~64 thru RF2	
	RF Range	50~960MHz, 1kHz stepping	
	Output Level	-20dBm~-10dBm(87~117dbμV), 0.1dB stepping	

	MER	$\geq 40\text{dB}$
TS output	Per Daughter QAM Card	32/48/64 IP output over UDP/RTP/RTSP, unicast/multicast, through 4 SFP+ ports, 4 SFP ports and 12 GE ports in the front panel
System	Web-based Network management	
General	Dimension	480mm×440mm×44.5mm (W×L×H)
	Temperature	0~45℃(operation), -20~80℃(storage)
	Power Supply	AC 100V±10%, 50/60Hz ; or AC 220V±10%, 50/60Hz
	Consumption	About 200W (3 daughter QAM cards)

Major Technical Comparison

	DHP200D	DHP200E
Card Number	Max 2	Max 3
SFP+/SFP/RJ45 ports in the front panel	3 SFP+(10G)/SFP(1G) ports and 2 GE ports	4 SFP+ (10G)/4 SFP(1G) ports and 12 GE ports
Max Carriers number	112	192
Inner connector GE ports	6	12
DATA Port in card	Depends on card spec	2 SFP ports as input per card (optional)

Order Guide

- **Card Type Option: 32, 48 or 64 QAM card**
- **Card Number Option: 1, 2 or 3 pcs**
- **PSU option: 1*220VAC or 2*220VAC not hot-swapping PSU**



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