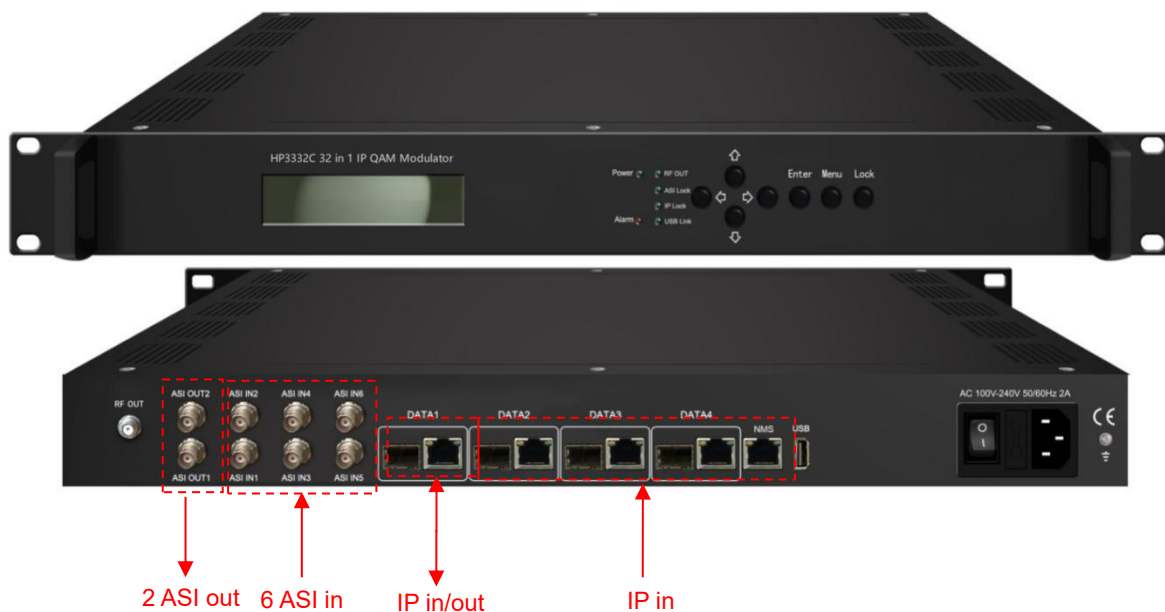




HP3332C

16 in 1/32 in 1 IP QAM Modulator



Product Overview

HP3332C 16in1 (or 32in1) DVB-C modulator is an all-in-one device developed by CATCAST. It supports maximum 1024 IP input through the 4 GE/SFP port and also 6 ASI input. After multiplexing, scrambling 16(or 32) and DVB-C modulating, it gives 16(or 32) non-adjacent carriers (50MHz~960MHz), 2 ASI output and 16 or 32 IP (MPTS) output as mirror of carriers. The device is characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation DTV broadcasting system.

Key Features

- **4 GE/SFP ports (max 1024 IP in):**
Data1 is bi-directional ports, max 1024 IP in, 16/32 IP out

Data2&3&4 ports only for input

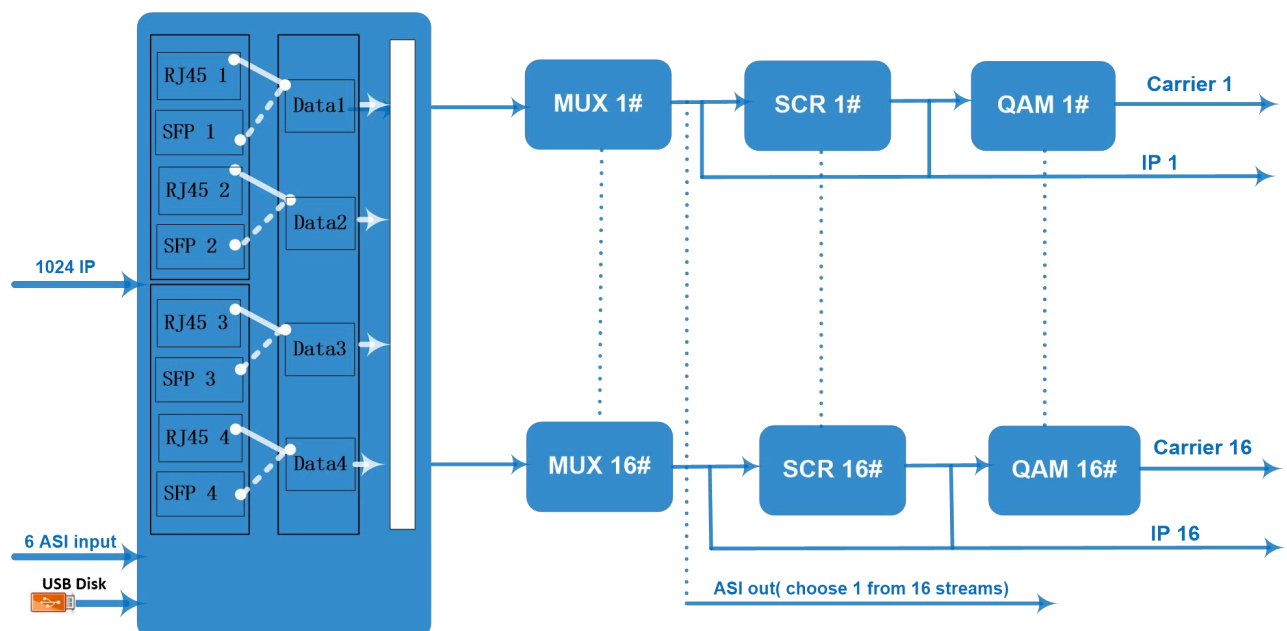
- Supports accurate PCR adjusting
- Max 840Mbps for each input
- Supports accurate PCR adjusting/CA filtering, PID remapping and PSI/SI editing
- Supports up to 256 PIDs remapping per channel
- Supports 6 ASI input and 2 ASI output
- Support 16 (or 32) multiplexed TS over UDP/RTP/RTSP output
- 16(or 32) DVB-C non-adjacent carriers output, compliant to DVB-C (EN 300 429) and ITU-T

J.83 A/B

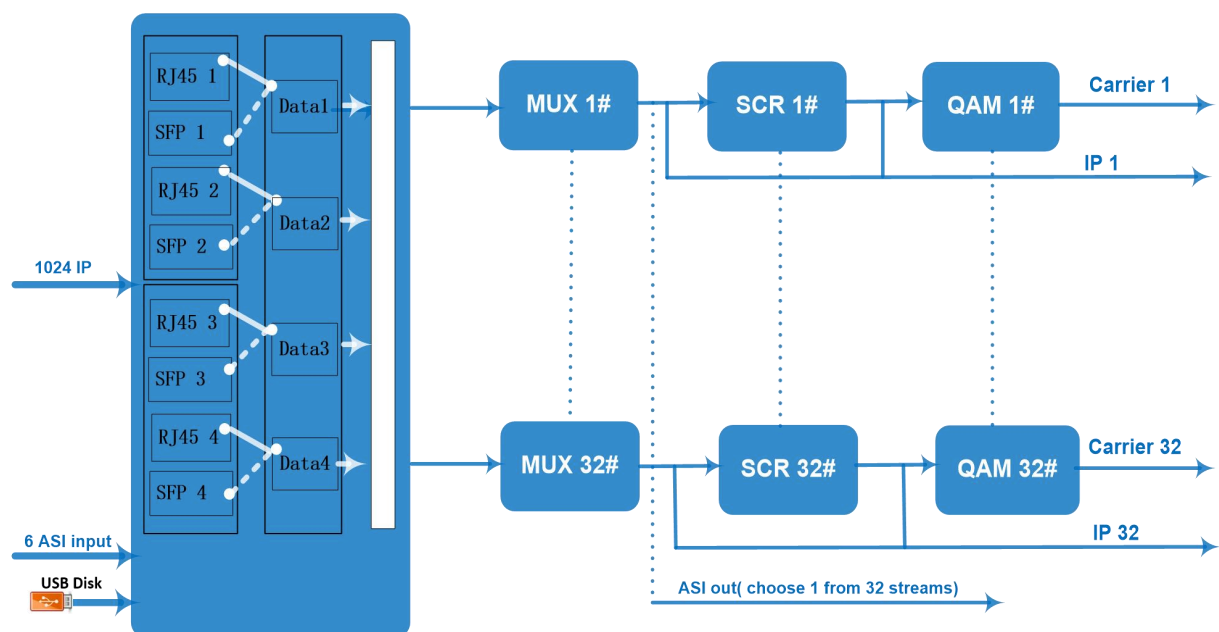
- Supports RS(204,188) encoding
- Support Web-based Network management

Inner Principle Chart

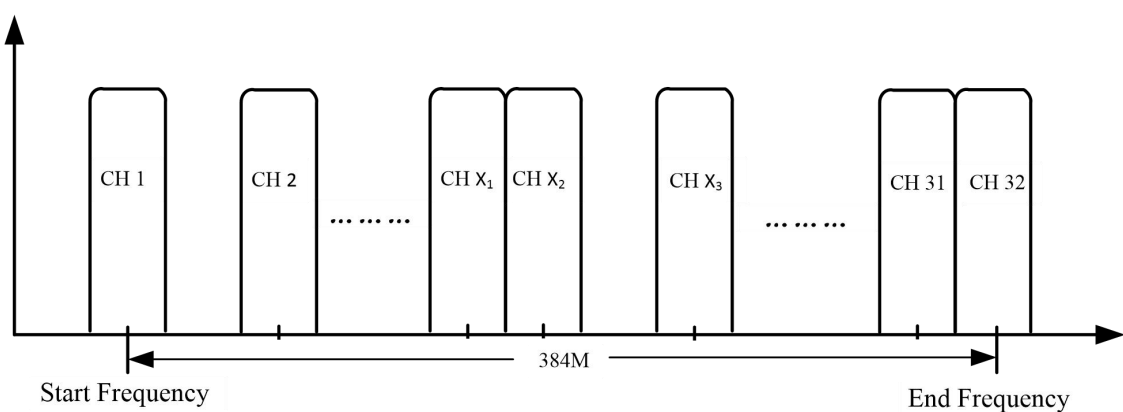
For 16 carriers out:



For 32 carriers out:



Carrier Setting Illustration:



Specifications

Input	Input	16/32 DVB-C carriers: Max 1024 IP input through Date1-Date4 100/1000M Ethernet Port (or SFP interface optional). Each Data port can input max 1024 IP.
		6 ASI input, BNC interface
	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	16/32
	Max PIDs	256 per channel

	Functions	PID remapping(auto/manually optional)	
		PCR accurate adjusting	
		PSI/SI table automatically generating	
Scrambling Parameters	Max simulcrypt CA	6	
	Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197	
	Connection	Local/remote connection	
Modulation Parameters	DVB-C Modulator Section	J.83A	Constellation : 16/32/64/128/256QAM
			Bandwidth :8M
		J.83B	Constellation : 64QAM/ 256QAM
			Bandwidth :6M
	QAM Channel	16/32 non-adjacent carrier	
	Modulation Standard	EN300 429/ITU-T J.83A/B(DVB-C)	
	Symbol Rate	5.0~7.0Msps, 1ksps stepping	
	Constellation	16, 32, 64 , 128, 256QAM	
	FEC	RS (204, 188)	
RF Output	Interface	1 F typed output port for 16/32 carriers, 75Ω	
	RF Range	50~960MHz, 1kHz stepping	
	Output Level	-20dBm~+10dBm(87~117dbμV), 0.1dB stepping	
	MER	≥ 40dB	
TS output	16/32 IP output over UDP/RTP/RTSP, unicast/multicast, Data1 100/1000M Ethernet Ports		
	2 ASI output, one as mirror		
System	Network management software (NMS) supporting		
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	