



HPS3304T

IP DVB-T2 Modulator



Product Overview

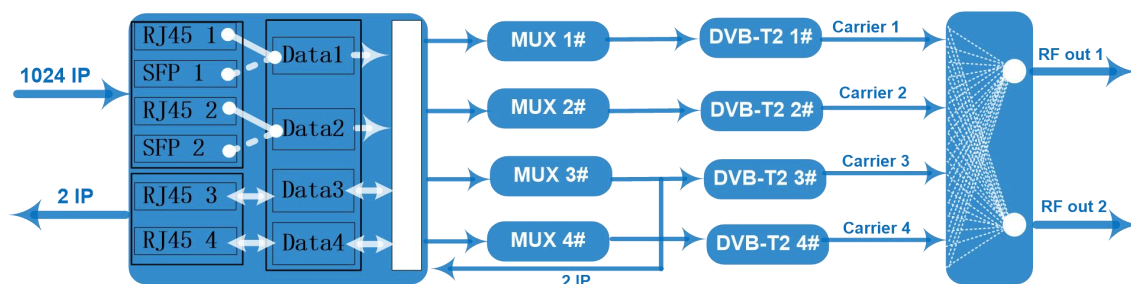
HPS3304T IP DVB-T2 modulator is a Multiplexing-modulating all-in-one device developed by Catcast. It has 4 multiplexing channels and 4 DVB- T2 modulating channels, and supports maximum 1024 IP inputs through 4 data ports and 4 non-adjacent carriers output through 2 RF output interfaces. The device is characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation DTV broadcasting system.

Key Features

- **6 GE ports:**
4*RJ45, 2*SFP, DATA1/2 and SFP1/2 for input, DATA 3/4 for output
- **4 DVB-T2 non-adjacent carriers output, fully complying with EN302 755**
- **Max 840Mbps and 1024 IP inputs for each GE input**
- **Supports multiplexing with accurate PCR adjusting, PID remapping and PSI/SI editing**
- **Supports up to 256 PID remapping per channel**
- **2 IP (MPTS) output over UDP protocol**

- Supports single PLP
- Support MISO and SISO
- Supports non-linear digital pre-distortion (DPD)
- Support PID bypass and pass-through
- Support Web-based Network management

Inner Principle Chart



Specifications

Input	Input	Max 1024 IP input through data ports 1/2, 100/1000M Ethernet Ports (RJ45 1/2 and SFP interface 1/2 alternative)
	Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3
	Transmission Rate	Max 840Mbps for each input channel
Mux	Input Channel	1024 IP streams
	Output Channel	4
	Max PIDs	256 per channel
	Functions	PID remapping(auto/manually optional) PCR accurate adjusting PSI/SI table automatically generating
Modulation Parameters	Output Channel	4 non-adjacent carriers output
	Modulation Standard	EN302 755
	Mode	Mode A: single-PLP;
	L1Post Constellations	QPSK, 16QAM, 64QAM, 256QAM (Normal or Rotated)
	FEC Length	Short(16K), Normal (64K)
	FEC Rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
	Bandwidth	5/6/7/8 MHz
	Pilot Pattern	PP1 - PP8
	Guard Interval	1/128, 1/32, 1/16, 19/256, 1/8, 19/128, 1/4
	FFT Mode	1k, 2k, 4k ,8k, 16k

RF Output	Interface	2 F type port, 75Ω impedance
	RF Range	50~960MHz, 1kHz stepping
	Output Level	-15~+5 dBm, 0.1db stepping
	MER	≥ 43dB
	Shoulder Level	>56dB
TS output	2 IP output over UDP/RTP/RTSP, unicast/multicast, 100/1000M Ethernet Ports	
System	Web-based Network management	
General	Demission	420mm×440mm×44.5mm (WxLxH)
	Temperature	0~45℃ (operation), -20~80℃ (storage)
	Power Supply	AC100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz