

IP to 32 QAM Modulator



Model : 32IPQAM

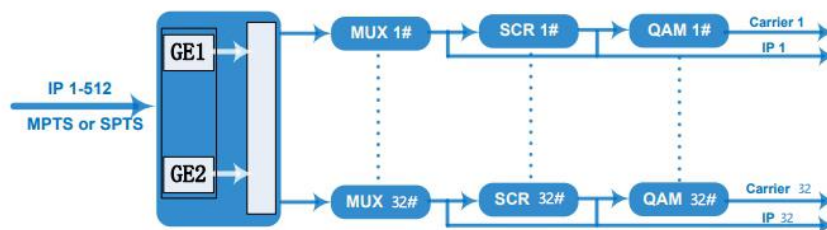


Product Description:

32IPQAM IP to 32 QAM Modulator is the latest generational Mux-scrambling-modulating all-in-one device developed. It has 32 multiplexing channels, 16 scrambling channels and 32 QAM modulating channels, and supports maximum 1024 IP input through the GE port and 16 non-adjacent carriers (50MHz~960MHz) output through the RF output interface. The device is also characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation CATV broadcasting system.

Features:

1. Modular design, 1U chassis supports up to 3 modules
2. Fully complying with EN300 429/ITU-T J.83A
3. 2 GE ports support backup input, up to 1024 IP inputs, network de-bounce
4. Supporting UDP protocol, uni-cast and multicast, IGMP V2/V3
5. Single input IP max value 108Mbps, amount input coding stream value 840Mbps
6. Direct-connection input or be multiplexed to 8 output channels
7. Any input channel to any output channel multiplexing, amount of output PID per input is 256 (maximum)
8. PCR fine-tuning
9. PSI / SI editing and inserting
10. 32 QAM modulation carrier output, 4 adjacent channel carrier output, 2 RF output
11. 32QAM modulation constellation optional
12. Symbol rate range: 5.0Msps~7.0Msps
13. RF output range: 48MHz~860MHz in 1kHz step
14. RF output level attenuation: -14dBm~6dBm in 0.5dB step
15. MER \geq 40dB
16. Network management system



Specification:



Input		512*2 IP input, 2 100/1000M Ethernet Port (SFP)
Transport protocol:		TS over UDP/RTP, unicast and multicast, IGMP V2/V3
Transmission code:		Max 840Mbps amount channels
Mux:	Input channel	1024
	Output channel	32
	Maximum PIDs	180 per input channel
	Functions	PID re-mapping(auto/manual optional)
		PCR accurate adjusting
PSI/SI table automatically generating		
Scrambling Parameters:	Max simulcrypt CA	4
	Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197
	Connection	Local/remote connection
Modulation Parameters:	QAM Channel	32 non-adjacent carrier
	Modulation Standard	EN300 429/ITU-T J.83A/B
	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 carriers, 75Ω impedance
	RF range	50~960MHz, 1kHz stepping
	Output ATT	-20dBm~+10dBm(87~117dBμV), 0.1dB stepping
	MER	≥ 40dB
	ACLR	-60 dBc
TS output:	16 IP output over UDP/RTP/RTSP, unicast/multicast, 2 100/1000M Ethernet Ports	
System:	Network management software (NMS) supporting	
General:	Demission(WxLxH)	420mm*440mm*44.5mm (WxLxH)
	Weight	3kg
	Temperature	0~45°C(operation),-20~80°C(storage)
	Power supply	AC 100V±10%,50/60Hz or AC 220V±10%,50/60Hz
	Consumption	15.4W