IP QAM MODULATOR

IP QAM Modulator is a new compact (1RU only) chassis and cost-effective QAM modulator, which is designed by according to the DVB related standards. IP QAM Modulator has 3 modules (each module supports up to 12 QAM frequencies), 10/100/1000Mbps Auto-Negotiation IP inputs, the RF output supports 16QAM~256QAM modes. The IP QAM Modulator has very convenient management interface, the user can complete all operation access through the Ethernet port on device.

Features

- Support 3 modules in 1RU(1~3 modules optional), 12 channels of each module, up to 36 channels
- Support TS (SPTS or MPTS) re-multiplexing function
- Support 1.15MHz~8.05MHz bandwidth
- Support 16QAM/32QAM/64QAM/128QAM/256QAM modulation modes
- Provide RF output monitoring port (-20dB)
- Adjustable Symbol Rate up to 7Mbaud
- Max. effective bit rate up to 51.6Mbps (SR=7Mbaud, 256QAM)
- Nominal RF Output power ≥100dBuV (with 0~25dB adjustable attenuation range) and 48~863MHz frequency range
- PSI/SI tables regeneration
- Up to 128X36 PID filtering and re-mapping
- access via Ethernet link

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Technical Specifications

Parameter	Symbol	Description	Unit	Remark
Mechanical dimension				
Height	H	42	mm	About 1U
Width	W	434	mm	About 17″
Depth	D	340	mm	
IP Port				
Type	-	10/100/1000BASE-T	MHz	Auto-Negotiation
Connector	-	RJ45		
Max. bitrate	-	1.25	Gbps	
Max. throughput	-	900	Mbps	
Compatible protocol	-	IP V4, UDP, ARP		
RF Output				
Impedance	-	75		
Connector	-	BNC	NA	
Frequency	-	48~863	MHz	
Output level	-	>110	dBuV	Adjustable
Modulation Specification				
Modulation scheme		16~256QAM		
Symbol Rate	SR	1~7	Mbaud	
Bandwidth	BW	1.15~8.05	MHz	
Effective output bit rate		≤51.6	Mbps	SR=7Mbaud, 256QAM
Modulation Error Rate	MER	≥40	dB	After equalizer, 64QAM
Bit Error Rate	BER	≥9x10E -9		After FEC, 64QAM
Carrier to Noise	C/N	≥45	dB	

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