



Product Overview

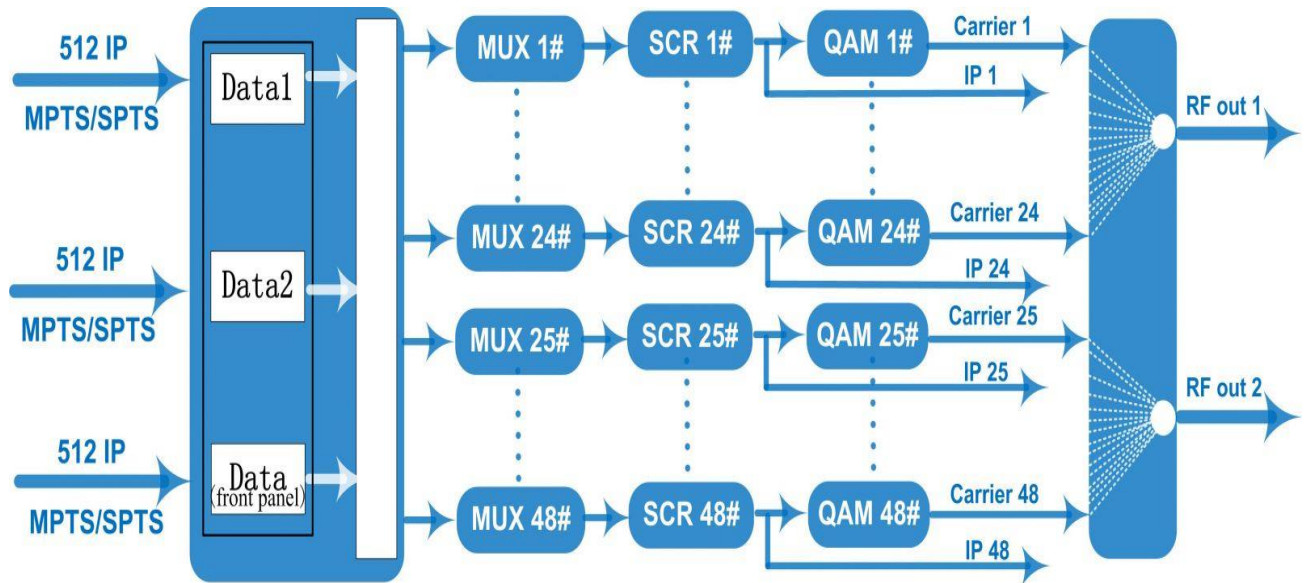
UNIWAY 48 in 1 IP QAM Modulator is Mux-scrambling-modulating all-in-one device developed by UNIWAY. It has 48 multiplexing channels, 48 scrambling channels and 48 QAM (DVB-C) modulating channels, and supports maximum 1536 IP input through the 3 GE ports and 48 non-adjacent carriers (50MHz~960MHz) output through the RF output interface. The device is characterized with dual RF output ports which broaden the bandwidth for QAM carriers.

Key Features

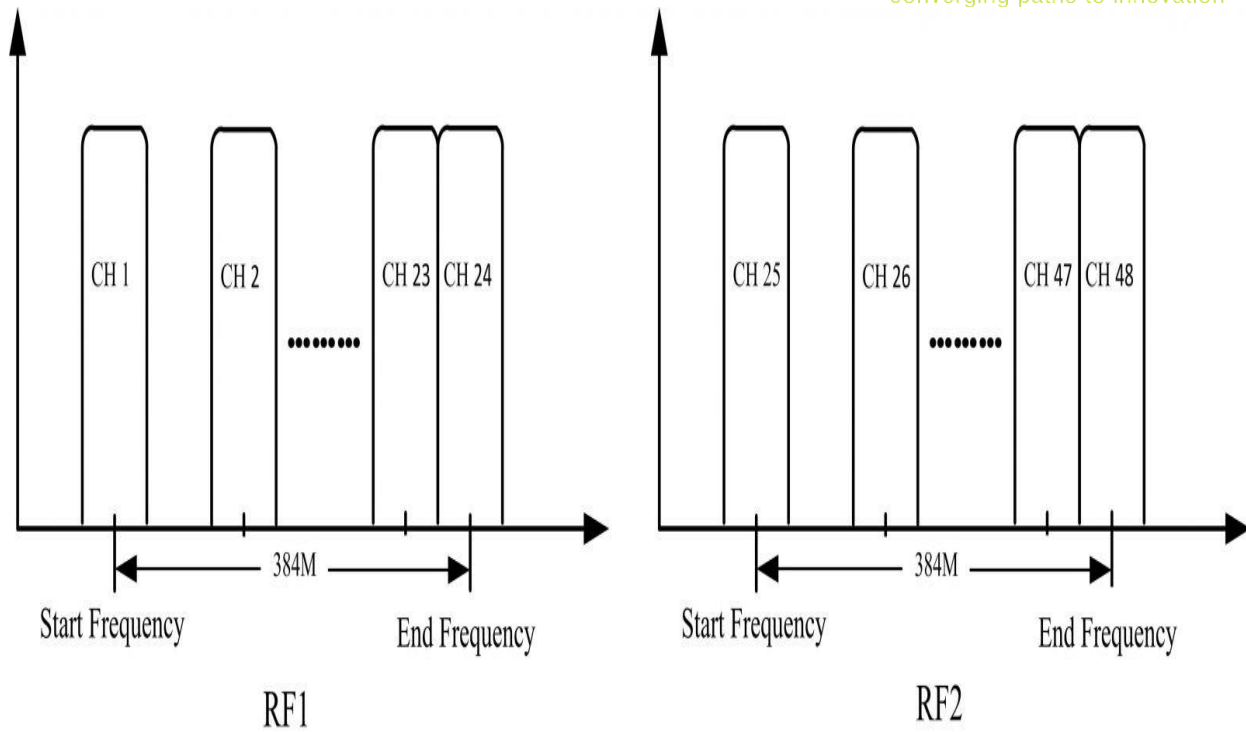
- * Max 1536 IP input thru 3 GE ports (SFP interface optional)
- * Up to 512 PIDs remapping per output channel
- * Supports 6 simulcrypt CAs and 4 scrambling channels
- * 48 IP out over UDP/RTP/RTSP: IP 1~24 out thru Data1, IP 25~48 out thru Data2
- * 48 non-adjacent QAM carriers output: carrier 1~24 out thru RF1, carrier 25~48 out thru RF2
- * Supports RS (204,188) encoding

- * Supports accurate PCR adjusting/CA filtering, PID remapping and PSI/SI editing
- * Web-based Network management

Inner Principle Chart



Carrier Setting Illustration



Specifications

Input	Input	Max 1536 IP in thru 3 GE ports [Data 1 & Data 2 bi-directional ports, Data port (located on front panel), each port can input max 512 IP] 100/1000M Ethernet Port (SFP interface optional)
	Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3
	Transmission Rate	Max 840Mbps for each GE input
Mux	Input Channel	1536
	Output Channel	48
	Max PIDs	512 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
	Scramble Channel	4

	Connection	Local/remote connection	
Modulation Parameters	DVB-C Modulator Section	J.83A	Constellation :16/32/64/128/256QAM Bandwidth :8M
		J.83B	Constellation :64/256QAM Bandwidth :6M
		QAM Channel	48 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	2 F type output ports for 48 carriers, 75Ω Carrier 1~24 out thru RF1, 25~48 thru RF2
RF Range		50~960MHz, 1kHz stepping	
Output Level		-20dBm~+10dBm(87~117dbμV), 0.1dB stepping	
MER		≥ 40dB	
ACLR		-60 dBc	
TS output	48 IP output over UDP/RTP/RTSP, unicast/multicast, 2*100/1000M Ethernet Ports (SFP). IP 1~24 out thru Data1, IP 25~48 out thru Data2.		
System	Network management software (NMS) supporting		
General	Demission	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	