

COL5416 16 Channel IP QAM Modulator



Outline

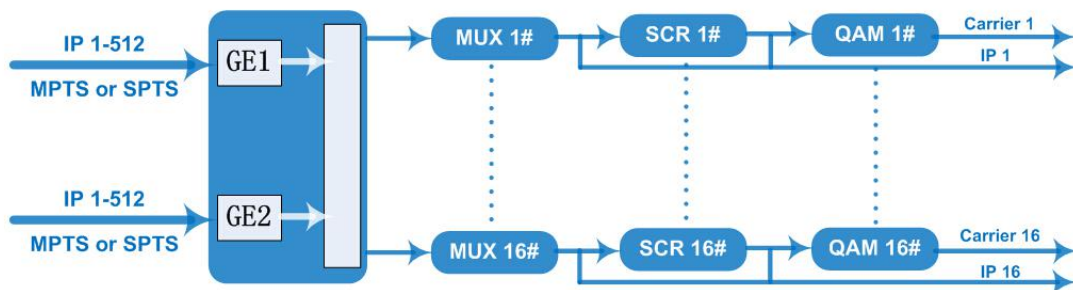
COL5416 IP Mux-Scrambling modulator is our latest generational Mux&scrambling and modulating all-in-one device. It has 16 multiplexing channels, 16 scrambling channels and 16 QAM (DVB-C) modulating channels, and supports maximum 1024 IP input through the GE port and 16 non-adjacent carriers (50MHz~960MHz) 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

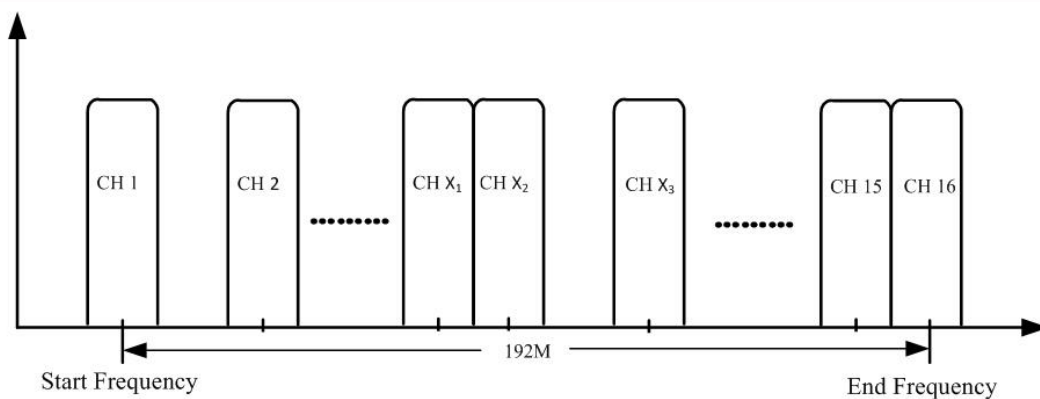
- ✓ 2 GE input, GE port or SFP interface
- ✓ Supports up to 1024 channels TS over UDP/RTP, unicast and multicast, IGMP v2v3
- ✓ Max 840Mbps for each GE input
- ✓ Supports accurate PCR adjusting

- ✓ Supports CA PID filtering, remapping and PSI/SI editing
- ✓ Supports up to 180 PIDS remapping per channel
- ✓ Support DVB general scrambling system (ETR289), simulcrypt standards ETSI 101 197 and ETSI 103 197
- ✓ Support 16 multiplexed or scrambled TS over UDP/RTP/RTSP output
- ✓ 16 non-adjacent QAM 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



Carrier Setting Illustration



Specifications

Input	Input	512×2 IP input, 2 100/1000M Ethernet Port
	Transport Protocol	TS over UDP/RTP/RTSP, unicast and multicast, IGMP V2/V3
	Transmission Code	Max 840Mbps for each GE input
Mux	Input Channel	1024
	Output Channel	16
	Max PIDs	180 per channel
	Functions	PID remapping(auto/manually 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	16 non-adjacent carrier
	Modulation Standard	EN300 429/ITU-T J.83A/B/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 carriers, 75Ω impedance
	RF Range	50~960MHz, 1kHz stepping
	Output Level	-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	



COLABLE

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General	Demission	420mm×440mm×44.5mm (W×L×H)
	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