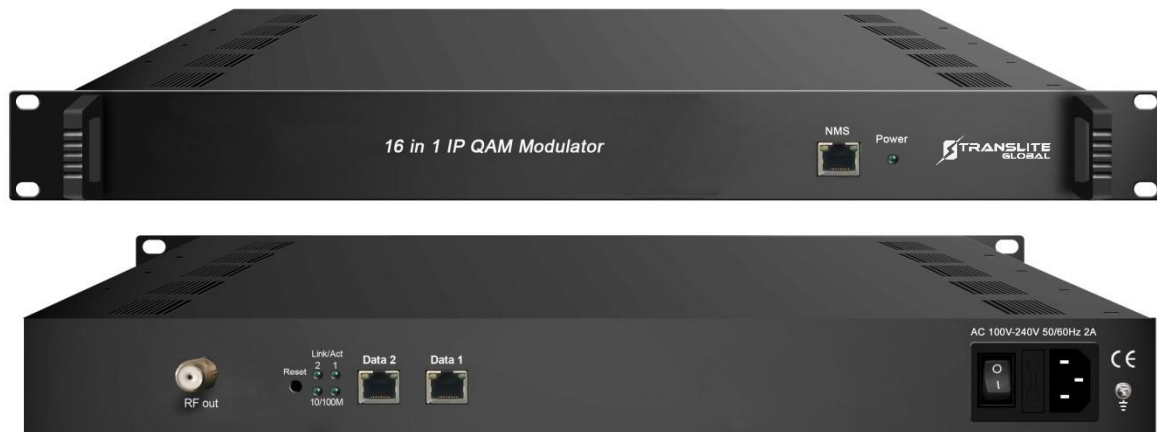# PRODUCT MODEL NUMBER: TL-9916

16-IN-1 IP QAM MODULATOR

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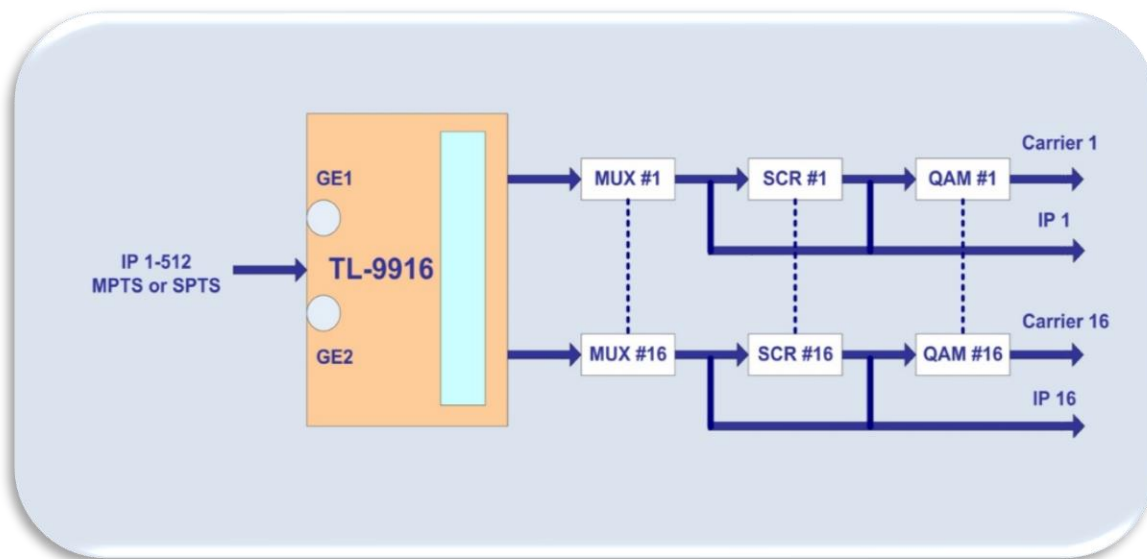
PRODUCT OVERVIEW

TL-9916 16 in 1 IP QAM modulator is the latest generational Mux-scrambling-modulating all-in-one device. It has 16 multiplexing channels, 16 scrambling channels and 16 QAM (DVB-C) modulating channels and supports maximum 512 IP input through the GE port and 16 non-adjacent carriers (50MHz~960MHz) output through the RF output interface.
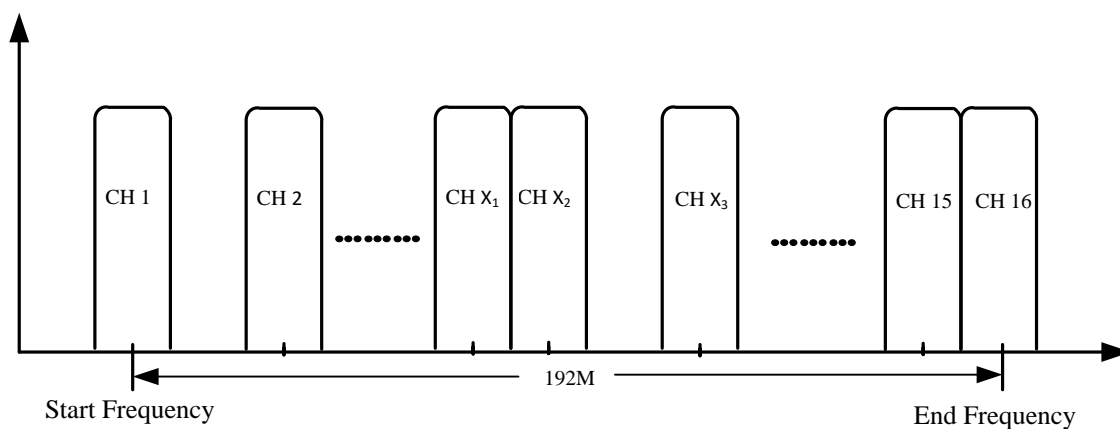
KEY FEATURES

➢ 2 GE input, Data 1 and Data 2

➢ Support up to 512 channels TS over UDP/RTP, unicast and multicast, IGMP v2\v3

➢ Max 840Mbps for each GE input

➢ Support accurate PCR adjusting

➢ Support CA filtering, PID 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

➢ Support RS (204,188) encoding

➢ Support Web-based Network management
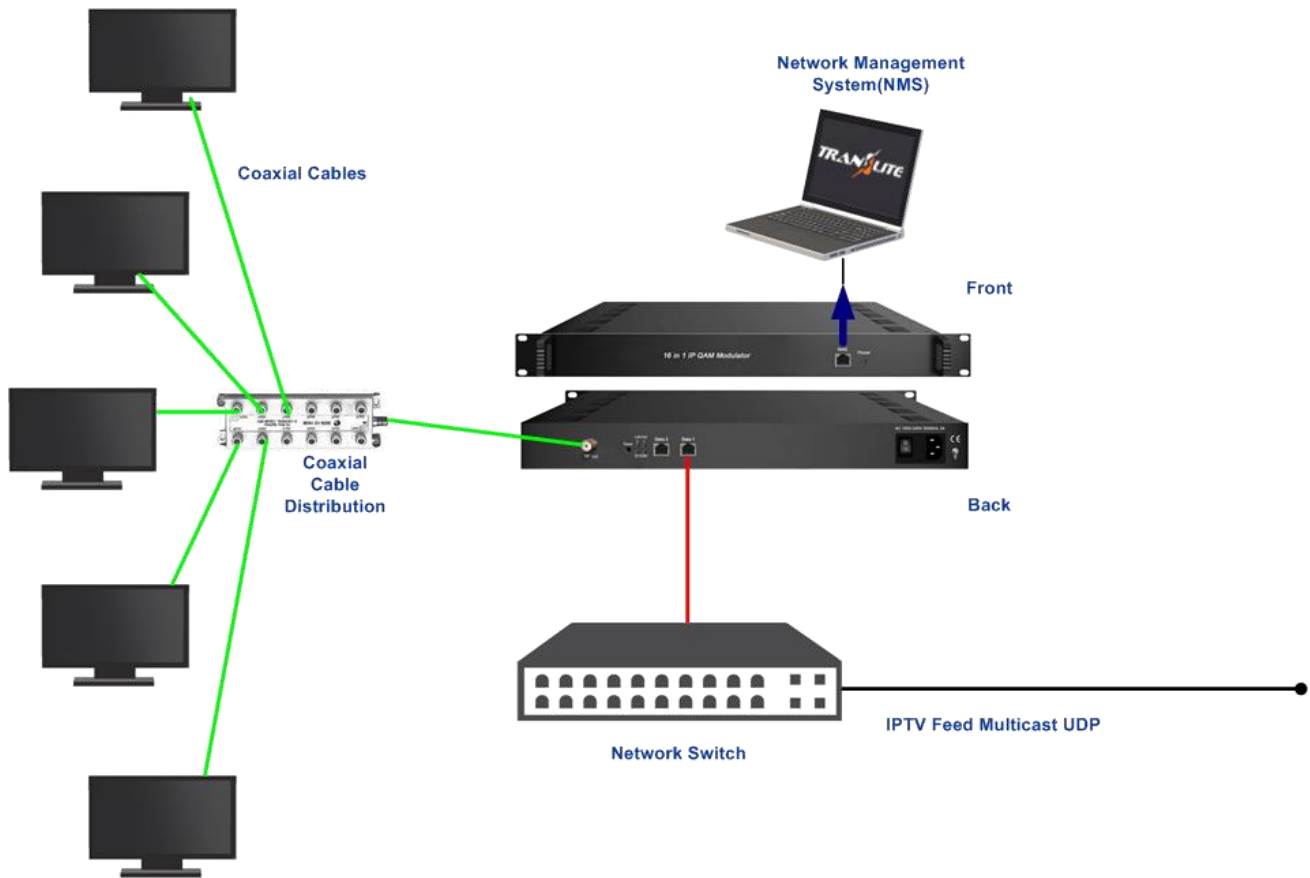
PRINCIPLE CHART

CARRIER SETTING ILLUSTRATION

SPECIFICATIONS

Input	
Input	512 IP input, 2 100/1000M Ethernet Port (SFP optional)
Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3
Transmission rate	Max 840Mbps for each GE input
Mux	
Input Channel	512
Output Channel	16
Max PIDs	180 per channel
Functions	PID remapping (auto/manually optional) PCR accurate adjusting PSI/SI table automatically generated
Scrambling Parameters	
Max simulscrypt CA	4
Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197
Connection	Local/Remote connection

Modulation Parameters		
DVB-C Modulator Section	J.83A	Constellation : 16/32/64/128/256QAM Bandwidth: 8M
	J.83B	Constellation : 64QAM/ 256QAM Bandwidth: 6M
QAM Channel	16 non-adjacent carrier	
Modulation Standard	EN300 429/ITU-T J.83A/B(DVB-C)	
Symbol Rate	5.0~7.0Msps, 1ksps stepping	
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
General	
Dimension	420mm×440mm×44.5mm (WxLxH)
Temperature	0~45℃(operation), -20~80℃(storage)
Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz

APPLICATION

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