

PRODUCT MODEL NUMBER: TL-9932

32-in-1 IP QAM MODULATOR



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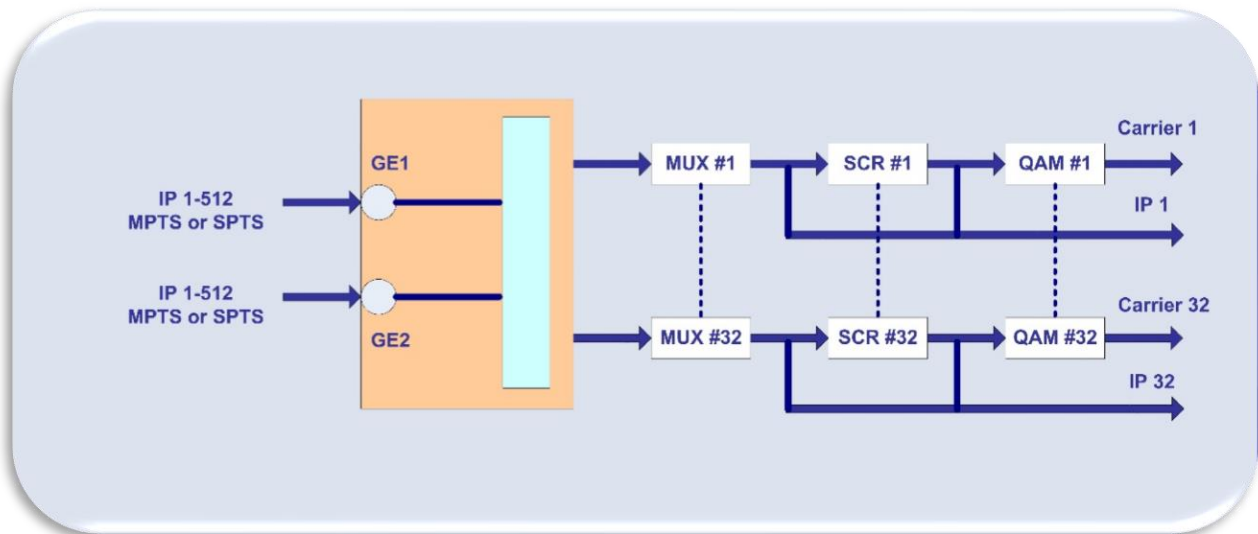
PRODUCT OVERVIEW

TL-9932 32 in 1 IP QAM modulator is our Mux-scrambling-modulating all-in-one device. It supports maximum 1024 IP input through the GE port and 32 multiplexing scrambling QAM (DVB-C) modulating channels with non-adjacent carriers (50MHz~960MHz) output through the RF output interface. Its pay-as-you-grow modular design and flexible configuration are making it extremely scalable, very reliable with high performance, all of which are adaptable to newly generation CATV broadcasting system.

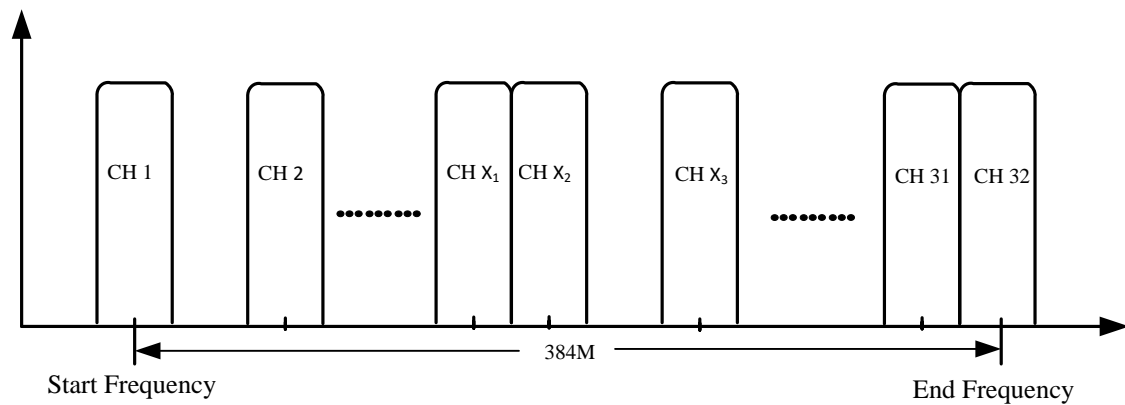
KEY FEATURES

- 2 GE input, Data1 and Data2 (SFP interface optional)
- Supports up to 1024 channels TS over UDP/RTP, unicast and multicast, IGMP v2\v3
- Max 840Mbps for each GE input
- Supports accurate PCR adjusting/CA filtering, PID remapping and PSI/SI editing
- Supports up to 256 PITRANSLITE remapping per channel
- Support 32 multiplexed or scrambled TS over UDP/RTP/RTSP output
- 32 non-adjacent QAM carrier 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

PRINCIPLE CHART



CARRIER SETTING ILLUSTRATION

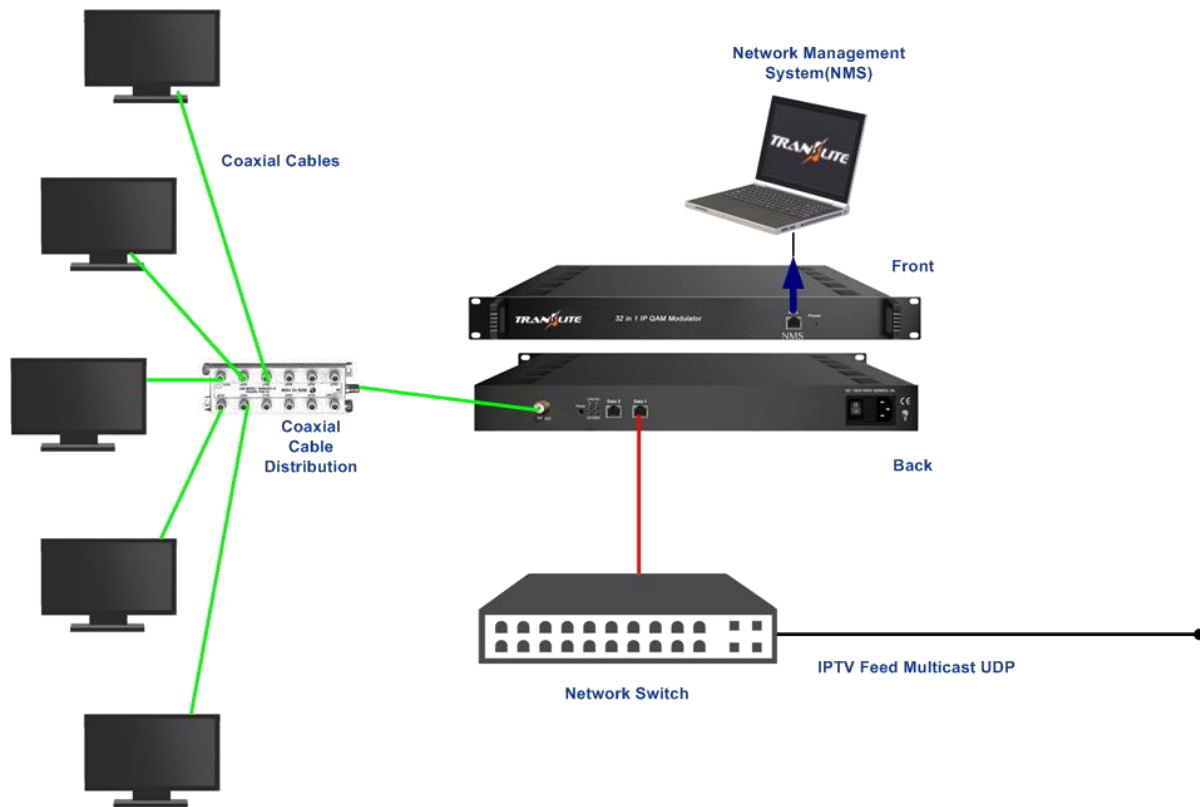


SPECIFICATIONS

Input	
Input	512×2 IP input, 2*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	1024
Output Channel	32
Max PITranslite	256 per channel
Functions	PID re-mapping (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
Modulators Parameters	
DVB-C Modulator Section	J.83A Constellation : 16/32/64/128/256QAM Bandwidth :8M J.83B Constellation : 64QAM/ 256QAM Bandwidth :6M
QAM Channel	32 non-adjacent carrier
Modulation Standard	EN300 429/ITU-T J.83A/B(DVB-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 32 carriers, 75Ω
RF Range	50~960MHz, 1kHz stepping
Output Level	-20dBm~+10dBm(87~117dbμV), 0.1dB stepping
MER	≥ 40dB
TS Output	
32 IP output over UDP/RTP/RTSP, unicast/multicast, 2*100/1000M Ethernet Ports (SFP)	
System	
Network management software (NMS) supporting	
General	
Demission	420mm×440mm×44.5mm (WxLxH)
Temperature	0~45°C(operation), -20~80°C(storage)
Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz

APPLICATIONS



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