

PRODUCT MODEL NUMBER: TL-9994C 16-in-1 MUX SCRAMBLING QAM MODULATOR



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PRODUCT OVERVIEW

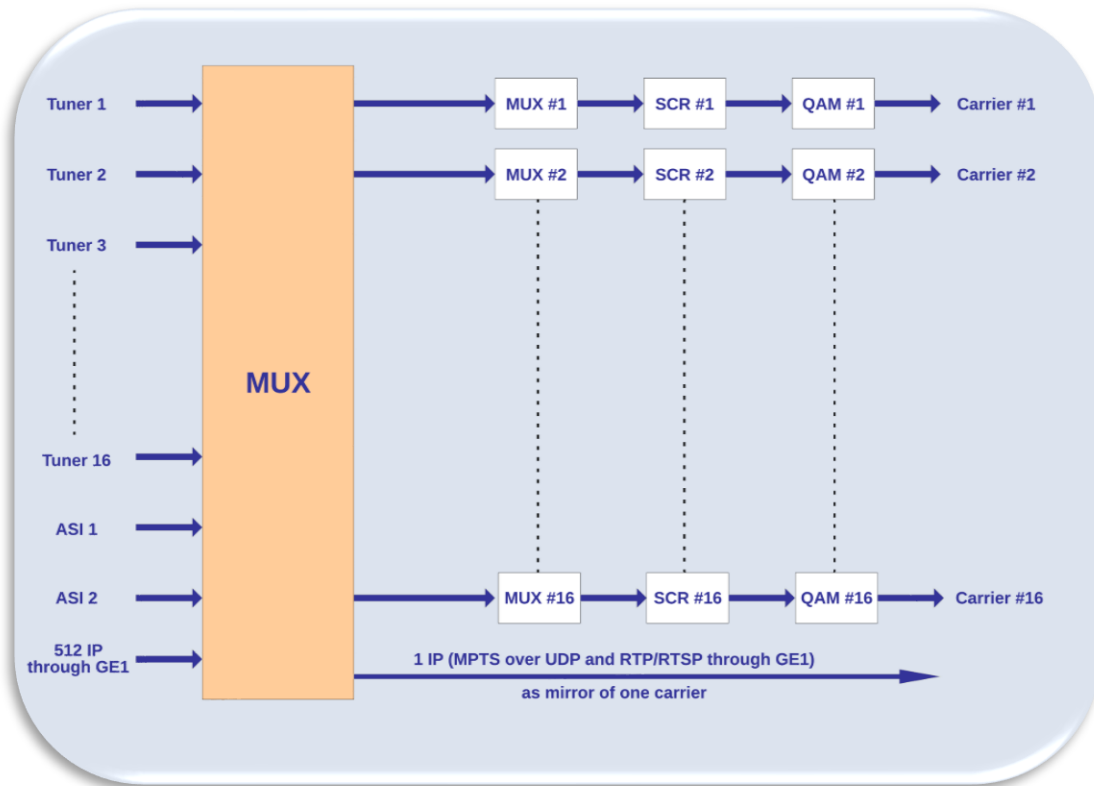
TL-9994C is a high performance and cost-effective QAM modulator designed by TRANSLITE. It supports 16 DVB-C (DVB-T/-T2/-S/-S2/S2X, ATSC, ISDB-T Optional) FTA tuner input, maximum 512 IP input through GE1 and TS input for re-mux through 2 ASI ports. After multiplexing, scrambling and QAM modulation, it gives 16 non-adjacent carriers output and 1 IP (MPTS) output through GE1.

TL-9994C is also characterized with high integrated level, high performance and low cost. It supports dual power supply (optional). This is very adaptable to new generation CATV broadcasting system.

KEY FEATURES

- 16 DVB-C (DVB-T/-T2/-S/-S2/-S2X, ATSC, ISDB-T Optional) FTA Tuner + 2 ASI input+512 IP input thru GE1 over UDP and RTP protocol
- 16*DVB-C RF output
- 1 IP (MPTS) output over UDP and RTP/RTSP, as mirror of one carrier
- Support 16 groups multiplexing+16 groups scrambling +16 groups QAM modulating
- Excellent RF output performance index, MER≥40db
- Support accurate PCR adjusting
- Support PSI/SI editing and inserting
- Support Web management, Updates via web
- Redundancy Power Supply (optional)

PRINCIPLE CHART



SPECIFICATIONS

Input			
16 DVB-C (DVB-T/-T2/-S/-S2/-S2X, ATSC, ISDB-T Optional) FTA Tuner			
512 IP input through GE1 over UDP and RTP protocol			
2 ASI input, BNC interface			
Tuner Section			
Multi-mode tuners switchable	DVB-C	Standard	J.83A(DVB-C), J.83B, J.83C
		Frequency In	60~890MHz
		Constellation	16/32/64/128/256 QAM
	DVB-T/T2	Frequency In	60~890MHz
		Bandwidth	6/7/8 M bandwidth
	ISDB-T	Frequency In	60~890MHz

Version 1	DVB-S/S2	Frequency In	950~2150MHz
		Symbol rate	QPSK 1~45Mbauds 8PSK 1~45Mbauds
		Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
		Constellation	QPSK, 8PSK
	DVB-S	Frequency In	950~2150MHz
		Symbol rate	0.5~45Msps
		Signal Strength	- 65~-25dBm
		FEC	1/2, 2/3, 3/4, 5/6, 7/8
		Constellation	QPSK
		Max input bitrate	≤129 Mbps
Version 2 (New)	DVB-S2	Frequency In	950~2150MHz
		Symbol rate	QPSK/8PSK /16APSK: 0.5~45 Msps 32APSK: 0.5~40Msps;
		FEC	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10
	DVB-S2X	Constellation	QPSK, 8PSK, 16APSK, 32APSK
		Max input bitrate	≤129 Mbps
		Frequency In	950-2150MHz
		Symbol rate	QPSK/8PSK /16APSK: 0.5~45 Msps 8APSK/32APSK: 0.5~40Msps
		FEC	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 8APSK: 5/9-L, 26/45-L 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36 , 2/3-L, 25/36, 13/18, 7/9, 77/90 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10, 2/3-L, 32/45, 11/15, 7/9

		Constellation	QPSK, 8PSK, 8APSK, 16APSK, 32APSK
		Max input bitrate	≤129 Mbps
		Frequency In	30~1000MHz
	ATSC	Bandwidth	6M
		Constellation	8VSB
Multiplexing			
Maximum PID Remapping	360 output per channel		
Function	PID remapping (automatically or manually) Accurate PCR adjusting Generate PSI/ SI table automatically		
Scrambling Parameters			
Max simulcrypt CA	4		
Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197		
Connection	Local/remote connection		
Modulation			
QAM Channel	16 non-adjacent carriers output		
Standard	EN300 429/ITU-T J.83A/B		
MER	≥40db		
RF frequency	50~960MHz, 1KHz step		
RF output level	-20~+10dbm(87~107 dbμV),0.1db step		
Symbol Rate	5.0Msps~7.0Msps, 1ksps stepping		
	J.83A	J.83B	
Constellation	16/32/64/128/256QAM	64/256 QAM	
Bandwidth	8M	6M	
Stream Output			
	16 RF output (F type interface)		
	1 IP (MPTS) output over UDP and RTP/RTSP (GE1 only), as mirror of one carrier		
System Function			
	Network management (WEB)		
	Chinese and English language		
	Ethernet software upgrade		

General	
Dimension(W*D*H)	482mm×300mm×44.5mm
Temperature	0~45°C(Operation); -20~80°C(Storage)
Power	AC 100V±1050/60Hz; AC 220V±10%, 50/60HZ

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