



NDS3332

IP MUX Scrambling QAM Modulator



Product Overview

NDS3332 (-D) IP QAM modulator is Mux-scrambling-modulating all-in-one device developed by DEXIN. It has 32 multiplexing channels, 32 scrambling channels and 32 QAM (DVB-C) modulating channels, and supports maximum 1024 IP input through the GE port and 32 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

- **2 GE input, Data1 and Data2 (SFP interface optional)**
- **Supports up to 1024 IP input through GE1 & GE2 over UDP/RTP**
- **Max 840Mbps for each GE input**
- **Supports accurate PCR adjusting, CA PID filtering, PID remapping and PSI/SI editing**

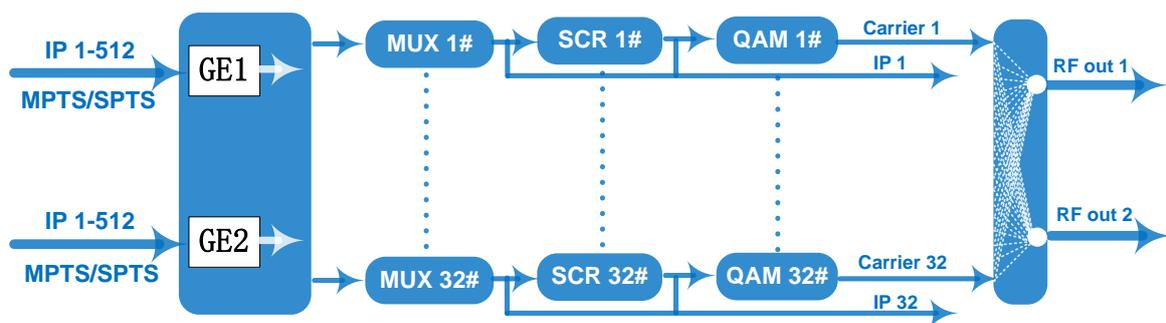


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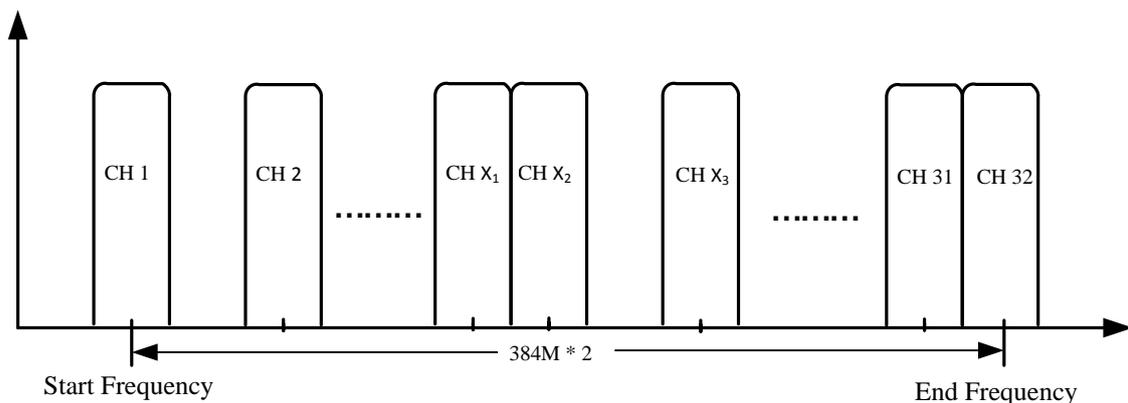
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- Supports up to 256 PID remapping per channel
- Support DVB general scrambling system (ETR289), simulcrypt standards ETSI 101 197 and ETSI 103 197
- Support 32 multiplexed or scrambled IP out over UDP/RTP/RTSP
- 32 non-adjacent QAM carriers output with 2 RF ports, 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



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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 PIDs	256 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	DVB-C Modulator Section	J.83A	Constellation :16/32/64/128/256QAM Bandwidth :8M	
		J.83B	Constellation :64/256QAM Bandwidth :6M	
	QAM Channel	32 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 32 carriers, 75Ω	
		RF Range	50~960MHz, 1kHz stepping	
Output Level		-20dBm~+10dBm(87~117dbμV), 0.1dB stepping		
MER		≥ 40dB		
ACLR		-60 dBc		
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 (W×L×H)		
	Weight	3kg		
	Temperature	0~45℃(operation), -20~80℃(storage)		
	Power Supply	AC 100V ±10%, 50/60Hz or AC 220V ±10%, 50/60Hz		
	Consumption	15.4W		