



**NDS3332**

**32 in 1 IP QAM Modulator**



## Product Overview

NDS3332 32 in 1 IP QAM modulator is DEXIN Mux-scrambling-modulating all-in-one device. It supports maximum 1024 IP input through the 3 GE ports 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

- **3 GE ports (max 1024 IP in):**
  - Data1 & Data2 bi-directional ports, max 512 IP in, 32 IP out**
  - Data port (located on front panel), max 128 IP in**

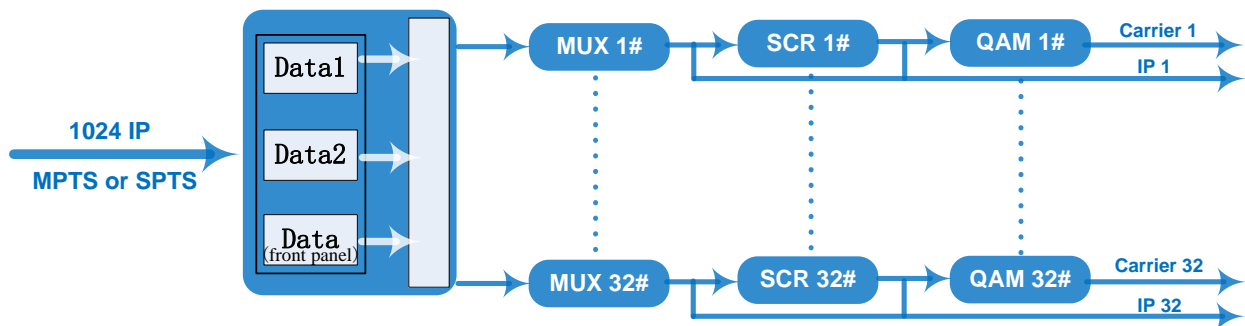


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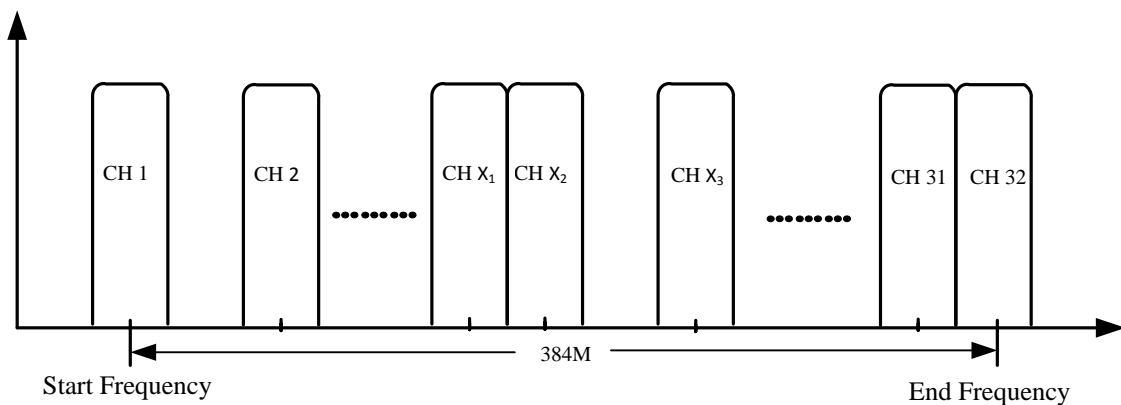
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- Max 840Mbps for each GE input
- Supports accurate PCR adjusting/CA filtering, PID remapping and PSI/SI editing
- Supports up to 256 PIDS remapping per channel
- Support 32 IP output through Data1 & Data2 over UDP/RTP/RTSP
- 32 non-adjacent QAM carriers 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

<b>Input</b>	Input	Max 1024 IP input through 3 (front-panel Data port, Data 1 and Data 2) 100/1000M Ethernet Port (SFP interface optional). Each Data1 or Data 2 port can input maximum 512 IP, while front-panel Data port can input maximum 128 IP	
	Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3	
	Transmission Rate	Max 840Mbps for each GE input	
<b>Mux</b>	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	
<b>Scrambling Parameters</b>	Max simulcrypt CA	4	
	Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197	
	Connection	Local/remote connection	
<b>Modulation Parameters</b>	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)	
	<b>RF Output</b>	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	
<b>TS output</b>	32 IP output over UDP/RTP/RTSP, unicast/multicast, 2 (Data1 & Data2) 100/1000M Ethernet Ports		
<b>System</b>	Network management software (NMS) supporting		
<b>General</b>	Demission	420mm×440mm×44.5mm (W×L×H)	
	Temperature	0~45℃(operation), -20~80℃(storage)	
	Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz	

## System Connection Sample (IP Based)

