



NDS3316

16 in 1 IP QAM Modulator



Product Overview

NDS3316 16 in 1 IP QAM modulator is the latest generational Mux-scrambling-modulating all-in-one device developed by DEXIN. It has 16 multiplexing channels, 16 scrambling channels and 16 QAM (DVB-C) modulating channels, and supports maximum 512 IP input through the 3 GE ports and 16 non-adjacent carriers (50MHz~960MHz) output through the RF output interface. The device is also characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation CATV broadcasting system.

Key Features

- **3 GE ports (max 512 IP in):**
 - Data1 & Data2 bi-directional ports, max 512 IP in, 16 IP out**
 - Data port (located on front panel), max 128 IP in**
- **Max 840Mbps for each GE input**

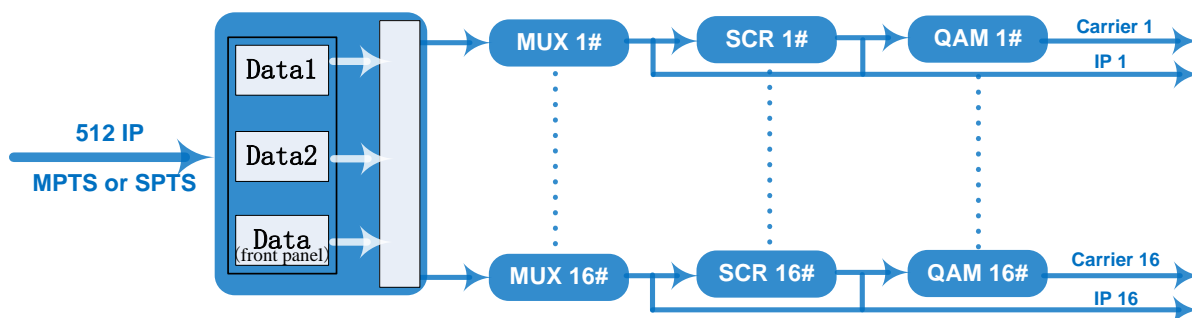


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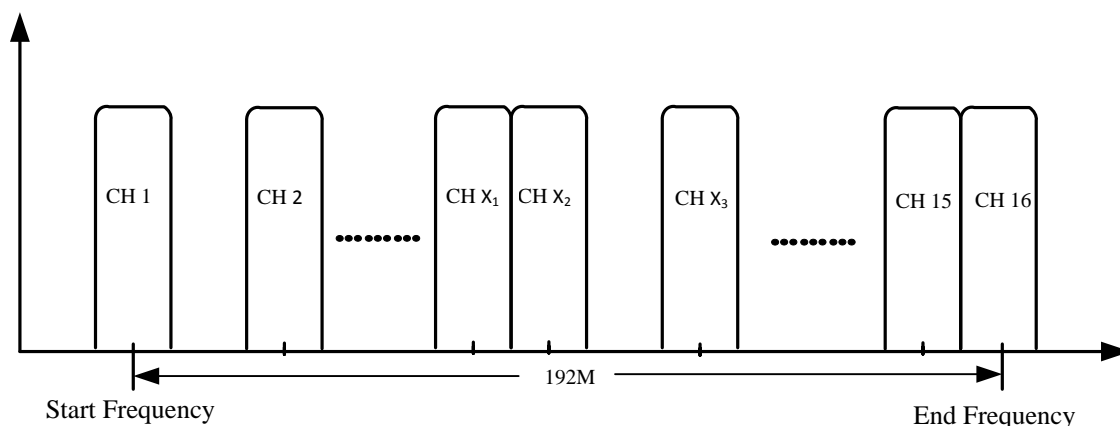
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- Support accurate PCR adjusting
- Support CA filtering, PID remapping and PSI/SI editing
- Supports up to 180 PIDS remapping per channel
- Support DVB general scrambling system (ETR289), simulcrypt standards ETSI 101 197 and ETSI 103 197
- Support 16 IP output through Data1 & Data2 over UDP/RTP/RTSP
- 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

Inner Principle Chart



Carrier Setting Illustration



Specifications

Input	Input	Max 512 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 max 512 IP, while front-panel Data port can input max 128 IP		
	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 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 : 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		
TS output	16 IP output over UDP/RTP/RTSP, unicast/multicast, 2 (Data1 & Data2) 100/1000M Ethernet Ports			
System	Network management software (NMS) supporting			
General	Demission	420mm×440mm×44.5mm (W×L×H)		
	Temperature	0~45°C (operation), -20~80°C (storage)		
	Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz		

System Connection Sample (IP Based)

