



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 GE port 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

- 2 GE input, Data 1 and Data 2
- Support up to 512 channels TS over UDP/RTP, unicast and multicast, IGMP v2/v3
- Max 840Mbps for each GE input

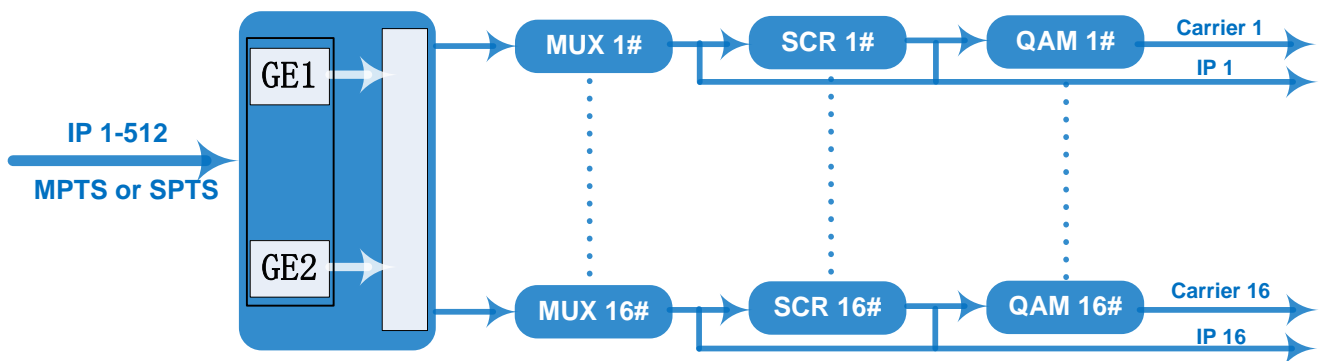


All the specifications are subject to change without any further notice. All rights reserved.

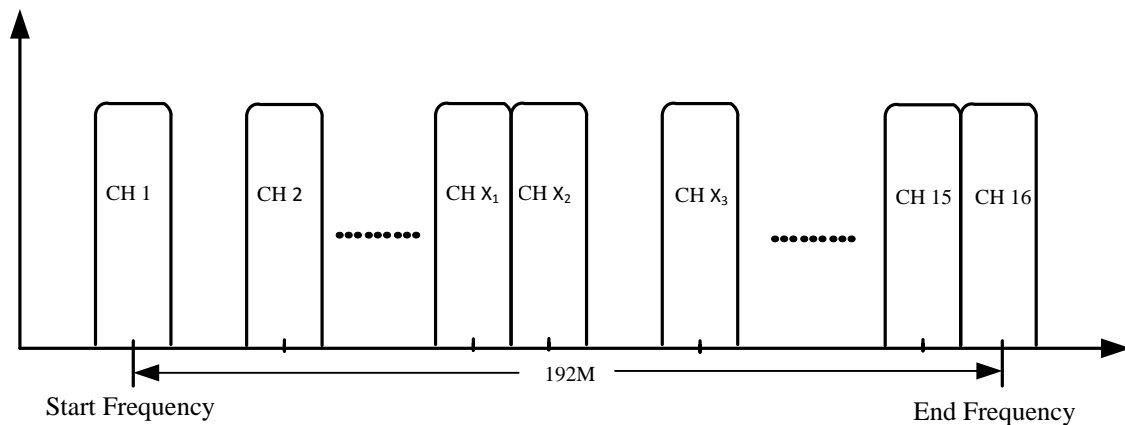
Address: No. 10 & No. 12, Wuxing Fourth Road, Wuhou District, Chengdu 610045, Sichuan, PR China
www.dsdvb.com/English Tel: +86-028-85558928 Fax: +86-028-85585255 Email: sunyu@dsdvb.com

- 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 multiplexed or scrambled TS over UDP/RTP/RTSP output
- 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 | 512 IP input, 2 100/1000M Ethernet Port (SFP optional) |
| | 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, 2 100/1000M Ethernet Ports | | |
| System | Network management software (NMS) supporting | | |
| General | Demission | 420mm×440mm×44.5mm (WxLxH) | |
| | 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)

