## NDS3348
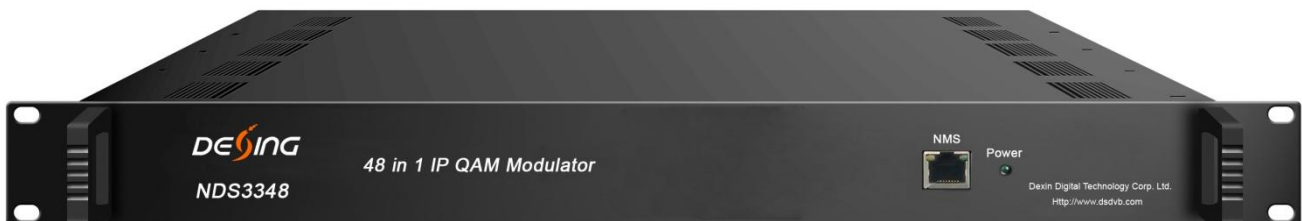
# 48 in 1 IP QAM Modulator



## Product Overview

NDS3348 48 in 1 IP QAM modulator is DEXIN Mux-scrambling-modulating all-in-one device.

It supports maximum 1536 IP input through the GE port and 48 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

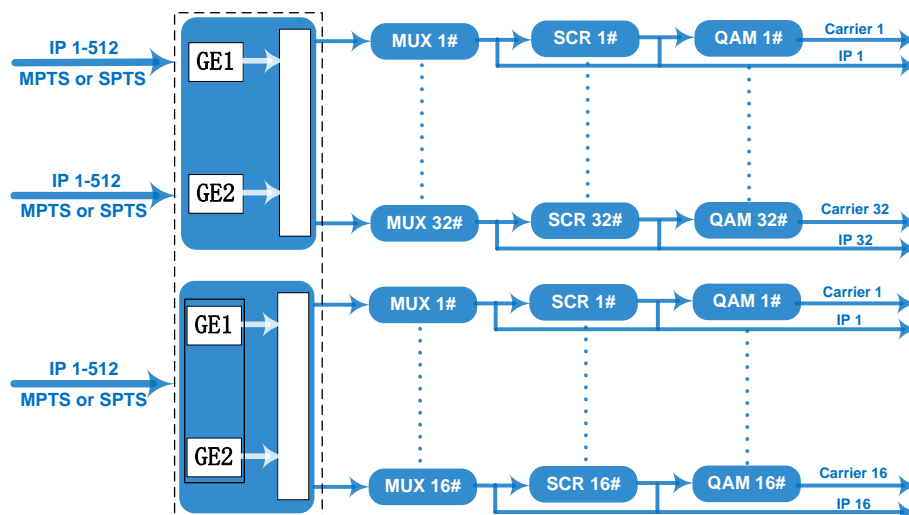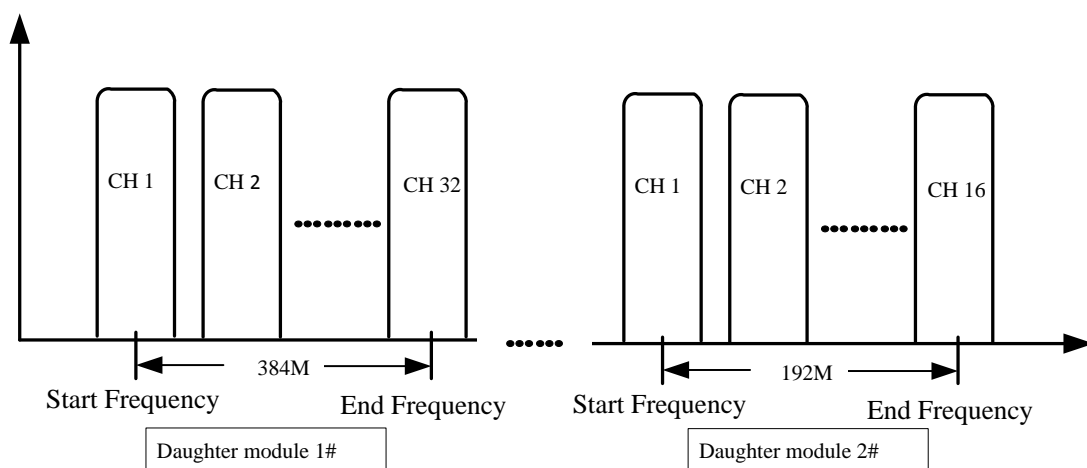to newly generation CATV broadcasting system.

# Key Features

- **2\* 2 GE input, Data1 and Data2 (SFP interface optional)**
- **Supports up to 1024+512 channels TS input over UDP/RTP, unicast and multicast, IGMP v2\v3**
- **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+16 multiplexed or scrambled TS over UDP/RTP/RTSP output**
- **32+16 non-adjacent QAM carriers output**
- **Supports RS (204,188) encoding**
- **Support Web-based Network management**

# Inner Principle Chart



# Carrier Setting Illustration

# Specifications

| | | |
|---|---|---|
| **Input** | Input | 1024+512 IP input, 2*100/1000M Ethernet Port (SFP interface optional) per module |
| | Transport Protocol | TS over UDP/RTP, unicast and multicast, IGMP V2/V3 |
| | Transmission Rate | Max 840Mbps for each GE input |
| **Mux** | Input Channel | 1024+512 |
| | Output Channel | 48 |
| | Max PIDs | 256 per channel |
| | Functions | PID remapping(auto/manually optional) |
| | | PCR accurate adjusting |
| | | PSI/SI table automatically generating |
| **Scrambling Parameters** | Max simulscrypt CA | 4 |
| | Scramble Standard | ETR289, ETSI 101 197, ETSI 103 197 |
| | Connection | Local/remote connection |
| **Modulation Parameters** | DVB-C Modulator Sectioon | J.83A — Constellation : 16/32/64/128/256QAM |
| | | J.83A — Bandwidth :8M |
| | | J.83B — Constellation : 64QAM/ 256QAM |
| | | J.83B — Bandwidth :6M |
| | QAM Channel | 32+16 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) |
| **RF Output** | Interface | 1 F typed output port for 48 carriers, 75Ω |
| | RF Range | 50~960MHz, 1kHz stepping |
| | Output Level | -20dBm~+10dBm(87~117dbµV), 0.1dB stepping |
| | MER | ≥ 40dB |
| **TS output** | | 32+16 IP output over UDP/RTP/RTSP, unicast/multicast, 2*100/1000M Ethernet Ports (SFP) per module |
| **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 |