



**NDS3314**

**Tuner input Mux-Scrambling QAM Modulator**



## Outline

NDS3314 Tuner input mux-scrambling QAM Modulator is the latest generation mux-scrambling-modulating all-in-one device. It has 8 channel tuner (DVB-S2) and one channel ASI inputs. After multiplexing, scrambling and QAM modulating process, it outputs digital RF. To meet customers' various requirements, this device is also equipped with IP port and 2 ASI out port to output TS. The device is also characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation CATV broadcasting system.

## Feature

- Support 8 Tuner+1 ASI input ports
- Fully support DVB-C (EN300 429) and ITU-T J.83A/B/C
- Fully support DVB general scrambling system description ETR289, and ETSI 101 197 and ETSI 103 197
- Support demodulating + multiplexing + scrambling + QAM modulating
- Support MPTS over UDP, RTP/RTSP output as mirror of ASI output(RJ45)
- Symbol rate adjusting range: 5.0Mpsps~9.0Mpsps
- Five constellation modes: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
- Support accurate PCR adjusting
- Supports PID filtering, remapping and PSI/SI editing
- Excellent RF output performance index,  $MER \geq 40db$
- Support LCD display and keyboard
- Web-based NMS management

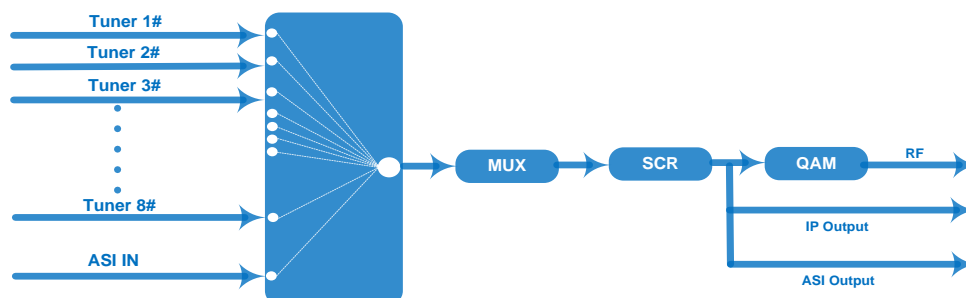


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## Working Principle



## Technical Specifications

|                     |  |  |
|---------------------|--|--|
| <b>Input</b>        | 8 DVB-S2 tuners+1 ASI                              |  |
| <b>Multiplexing</b> | Maximum PID Remapping                              | 128 per input channel                                  |
|                     | Any PID transparent and mapping achievable         |  |
|                     | Accurate PCR adjusting                             |  |
|                     | Generate PSI/SI table Automatically                |  |
|                     | Standard   | ETSI 101 197, ETSI 103 197                             |
|                     | Connection   | Local/remote connection                                |
| <b>Scrambling</b>   | Simul-crypt CA                                     | 1  |
|                     | Standard   | ETR289, ETSI 101 197, ETSI 103 197                     |
|                     | Connection   | Local/Remote connect                                   |
| <b>Modulation</b>   | QAM Channel  | 1  |
|                     | Standard   | EN300 429/ITU-T J.83A/B/C                              |
|                     | Symbol Rate  | 5.0~9.0Msps, 1ksps stepping                            |
|                     | Constellation                                      | 16, 32, 64, 128, 256 QAM                               |
|                     | FEC  | RS (204, 188)  |
|                     | Connector  | F Type, 75Ω impedance                                  |
|                     | RF Range   | 30~999MHz, 1kHz stepping                               |
|                     | Output Attenuation                                 | -30dBm~-10dBm, 0.1dB Stepping                          |
|                     | MER  | ≥40db  |
|                     | ACLR (Adjacent channel leakage ratio)              | -55dBC   |
|                     | <b>Output</b>                                      | ASI  |
| IP (100M Ethernet)  |  | MPTS over UDP, RTP/RTSP output as mirror of ASI output |
| <b>System</b>       | Support LCD display, keyboard operation;           |  |
|                     | Web-based NMS operation                            |  |
|                     | English and Chinese operation interface conversion |  |
|                     | Support Software Upgrading through Ethernet        |  |
| <b>General</b>      | Dimension (W*D*H)                                  | 482mm×455mm×44.5mm                                     |
|                     | Weight   | 3.7kg  |
|                     | Temperature  | 0~45℃ (Operation) ; -20~80℃ (Storage)                  |
|                     | Power  | AC100V±10%/60Hz or AC 220V±10%/50/60HZ                 |
|                     | Consumption  | 25W  |