



**NDS3348T V2**

**4 in 1 DVB-T Modulator**



## Outline

NDS3348T is a high-performance and cost-effective DVB-T modulator designed by Dexin. It has 8 tuner inputs, after multiplexing and modulating process, then it gives 4 DVB-T non-adjacent carriers output. To meet customers' various requirements, this device is also equipped with 128 IP inputs and 4 MPTS outputs over UDP and RTP. Its pluggable structure design greatly facilitates the change of modules as needed. Moreover, it has 4 CAM/CI slots to descramble the programs from the 4 tuner inputs in the 2 CI-Tuner Modules.

NDS3348T can be upgraded and controlled through Web GUI which allows it to be widely used in setting up digital broadcasting network and very adaptable to newly generation CATV broadcasting system.

## Key Features

- DVB-S/S2/S2X tuner inputs (Supporting PLS/Multi-Stream) or DVB-T/T2/C/ISDB-T multi-mode switchable tuner inputs, 2 types of tuner inputs for order option
- Pluggable Demodulation Module (4\*RF in/Loop out + 4\*CAM Slots)



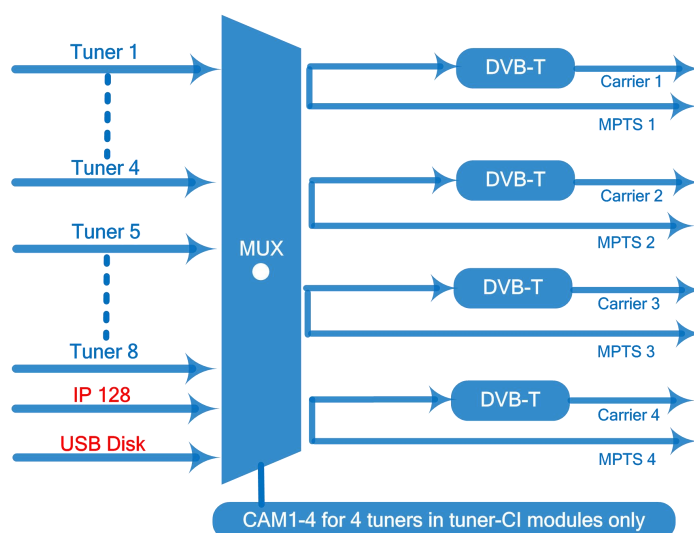
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- One CAM can decrypt multiple programs from the corresponding tuner input in the same one Tuner-CI module, and the 4 tuner inputs in the chassis are used for FTA signals only
- maximum 128 IP input (MPTS/SPTS) over UDP and RTP protocol
- A TS playing and broadcasting via an USB Disk (FAT 32, USB 2.0)
- 4 groups multiplexing + 4 groups DVB-T modulation+4 MPTS out over UDP and RTP protocol
- Support BISS descrambling
- Support accurate PCR adjusting, PID Remapping, PSI/SI rebuilding and editing, A/V PID filtering
- Remote reboot in Web GUI
- Web-based NMS management
- Easy updating of mother board and tuner board in Web GUI (Except for OS updating)

### Principle Chart:



### Specifications

|                      |                                                                                                                                                                                                                                                                                                                             |          |                 |                      |            |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------------------|------------|
| <b>Input</b>         | 4 Tuner in the chassis + 4 Tuner with CAM slots in the pluggable module, DVB-S/S2/S2X tuner inputs (Supporting PLS/Multi-Stream) or DVB-T/T2/C/ISDB-T multi-mode switchable tuner inputs for order option<br>128 IP(SPTS/MPTS) input over UDP and RTP, RJ45, 1000M/100M , Unicast/Multicast<br>1 TS Playing via an USB Disk |          |                 |                      |            |
| <b>Tuner Section</b> | Multi-mode tuners switchable                                                                                                                                                                                                                                                                                                | DVB-C    | Input Frequency | 60~890 MHz           |            |
|                      |                                                                                                                                                                                                                                                                                                                             |          | Standard        | J.83A, J.83C         | J.83B      |
|                      |                                                                                                                                                                                                                                                                                                                             |          | Constellation   | 16/32/64/128/256 QAM | 64/256 QAM |
|                      |                                                                                                                                                                                                                                                                                                                             | DVB-T/T2 | Input Frequency | 60~890 MHz           |            |
|                      |                                                                                                                                                                                                                                                                                                                             |          | Bandwidth       | 6/7/8 M              |            |
|                      |                                                                                                                                                                                                                                                                                                                             | ISDB-T   | Input Frequency | 60~890 MHz           |            |

|                      |                                                |                                     |                         |                                                                                                                                                                                                                                                                                                                             |
|----------------------|------------------------------------------------|-------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | Satellite                                      | DVB-S                               | Input Frequency         | 950 ~2150MHz                                                                                                                                                                                                                                                                                                                |
|                      |                                                |                                     | Symbol rate             | 0.5~45Msps                                                                                                                                                                                                                                                                                                                  |
|                      |                                                |                                     | Signal Strength         | - 65- -25dBm                                                                                                                                                                                                                                                                                                                |
|                      |                                                |                                     | FEC                     | 1/2, 2/3, 3/4, 5/6, 7/8                                                                                                                                                                                                                                                                                                     |
|                      |                                                |                                     | Constellation           | QPSK                                                                                                                                                                                                                                                                                                                        |
|                      |                                                |                                     | Max input bitrate       | ≤129Mbps                                                                                                                                                                                                                                                                                                                    |
|                      |                                                | DVB-S2                              | Input Frequency         | 950 ~2150MHz                                                                                                                                                                                                                                                                                                                |
|                      |                                                |                                     | Symbol rate             | QPSK/8PSK /16APSK :0.5~45 Msps<br>32APSK: 0.5~40Msps;                                                                                                                                                                                                                                                                       |
|                      |                                                |                                     | FEC                     | QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10<br>8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10<br>16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10<br>32APSK: 3/4, 4/5, 5/6, 8/9, 9/10                                                                                                                                                           |
|                      |                                                |                                     | Constellation           | QPSK, 8PSK, 16APSK, 32APSK                                                                                                                                                                                                                                                                                                  |
|                      |                                                |                                     | Max input bitrate       | ≤129 Mbps                                                                                                                                                                                                                                                                                                                   |
|                      |                                                |                                     | DVB-S2X                 | Input Frequency                                                                                                                                                                                                                                                                                                             |
|                      |                                                | Symbol rate                         |                         | QPSK/8PSK /16APSK :0.5~45 Msps<br>8APSK/32APSK: 0.5~40Msps                                                                                                                                                                                                                                                                  |
|                      |                                                | FEC                                 |                         | QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20<br>8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10<br>8APSK: 5/9-L, 26/45-L<br>16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36 , 2/3-L, 25/36, 13/18, 7/9, 77/90<br>32APSK: 3/4, 4/5, 5/6, 8/9, 2/3-L, 32/45, 11/15, 7/9 |
|                      |                                                | Constellation                       |                         | QPSK, 8PSK, 8APSK, 16APSK, 32APSK                                                                                                                                                                                                                                                                                           |
|                      | Max input bitrate                              | ≤129 Mbps                           |                         |                                                                                                                                                                                                                                                                                                                             |
| Descrambling         | CAM slots                                      |                                     | 4 sets                  |                                                                                                                                                                                                                                                                                                                             |
| BISS<br>Descrambling | Mode 1, Mode E (descramble individual program) |                                     |                         |                                                                                                                                                                                                                                                                                                                             |
| Multiplexing         | Maximum PID Remapping                          |                                     | 256 per input channel   |                                                                                                                                                                                                                                                                                                                             |
|                      | Function                                       | A/V PID filtering                   |                         |                                                                                                                                                                                                                                                                                                                             |
|                      |                                                | PID Remapping                       |                         |                                                                                                                                                                                                                                                                                                                             |
|                      |                                                | Accurate PCR adjusting              |                         |                                                                                                                                                                                                                                                                                                                             |
|                      |                                                | Generate PSI/SI table automatically |                         |                                                                                                                                                                                                                                                                                                                             |
|                      | DVB-T                                          | Standard                            | EN300744                |                                                                                                                                                                                                                                                                                                                             |
|                      |                                                | FFT mode                            | 2K                      |                                                                                                                                                                                                                                                                                                                             |
|                      |                                                | Bandwidth                           | 6M, 7M, 8M              |                                                                                                                                                                                                                                                                                                                             |
|                      |                                                | Constellation                       | QPSK, 16QAM, 64QAM      |                                                                                                                                                                                                                                                                                                                             |
|                      |                                                | Guard Interval                      | 1/4, 1/8, 1/16, 1/32    |                                                                                                                                                                                                                                                                                                                             |
|                      |                                                | Code Rate                           | 1/2, 2/3, 3/4, 5/6, 7/8 |                                                                                                                                                                                                                                                                                                                             |

|                   |                                                                      |                                           |                                                                               |
|-------------------|----------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------|
|                   |                                                                      | MER                                       | ≥42 dB                                                                        |
|                   |                                                                      | RF frequency                              | 50~960MHz, 1KHz step                                                          |
|                   |                                                                      | RF out                                    | 4*DVB-T non-adjacent carriers combined output, 40M total bandwidth limitation |
|                   |                                                                      | RF output level                           | -28~ -9 dBm, 0.1db step                                                       |
| <b>Stream out</b> | 4*MPTS out over UDP and RTP out (RJ45, 1000M/100M Unicast/Multicast) |                                           |                                                                               |
| <b>System</b>     | web-based NMS support                                                |                                           |                                                                               |
|                   | Ethernet software upgrading                                          |                                           |                                                                               |
| <b>General</b>    | Dimension                                                            | 482mm×300mm×44.5mm (W*D*H)                |                                                                               |
|                   | Temperature                                                          | 0~45℃(Operation) ; -20~80℃(Storage)       |                                                                               |
|                   | Power                                                                | AC 100V±10%/50/60Hz; AC 220V±10%, 50/60HZ |                                                                               |