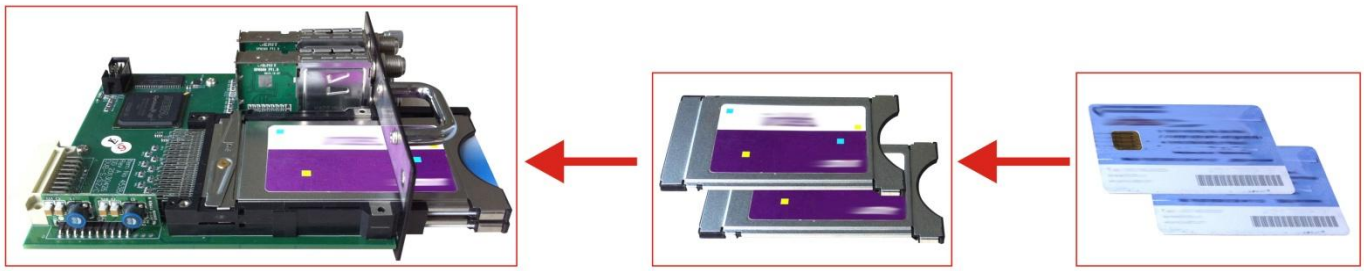
NDS3542 Trans-Modulator

4 * QPSK S/S2 → DVB-T/C Digital RF

1*Module = 2*RF/Loop out + 2*CAM + 2*Smartcard



Key Features

- Demodulation + modulation + mixer modules in one box
- 2*2 QPSK S/S2 Tuner inputs
- 2*2 CAM with 2*2 CI-slot, one CAM can decrypt multiple programs
- ASI in/out with re-mux
- 1 IP (MPTS) output

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- **RF mixed in, RF mixed out (1*DVB-T /2*DVB-T/1*DVB-C/4*DVB-C Optional)**
- **LCN support (Logical Channel Number)**
- **Excellent modulation quality: MER≥42dB**
- **LCD display, Remote control and Firmware, web NMS management**
- **Updates via web**
- **Best quality and breakthrough price**

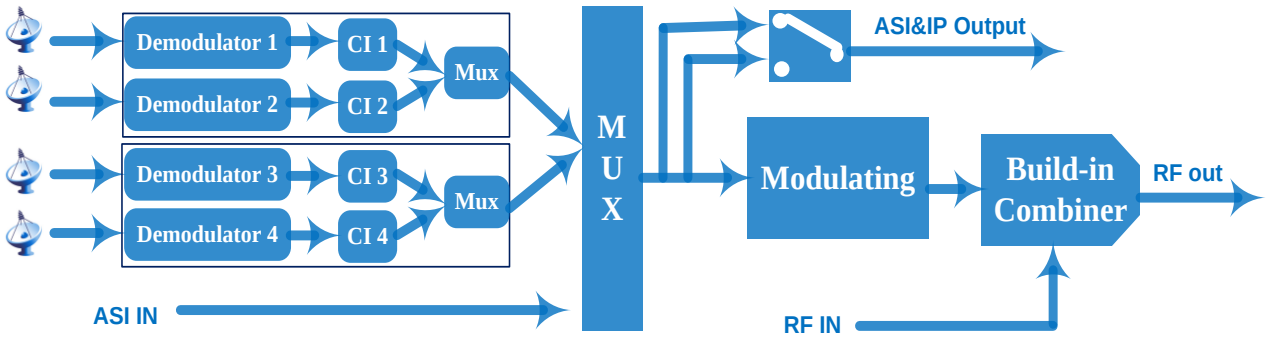
Product Introduction

NDS3542 trans-modulator is DEXIN's all-in-one device which integrates demodulation, trans-mux and modulation (DVB-C, DVB-T, ISDB-T or ATSC optional) in one case to convert satellite signals into digital RF output. Its pluggable structure design greatly facilitates the change of modules (RF/HDMI/CVBS/SDI/YPbPr/…) as needed. The unit in this sheet is a 1-U case which supports 4 DVB-S/S2 RF inputs with 4 CAMs/CI accompanied to descramble the encrypted satellite signals. The CAM requires NO unsightly external power cords, cables, or additional remote control device.

To meet customers' various requirements, NDS3542 is also equipped with 1 ASI input, and output with 2 ASI ports and 1 UDP IP port.

The output modulated signals are to be received by TVs, STB and etc with corresponding standard.

Principle Chart



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Technical Specifications

Input
4xDVB-S/S2 RF (HDMI/SDI/ YPbPr/CVBS /… optional)
1×ASI input for re-mux, BNC interface
1×RF input for combiner

Tuner Section	
QPSK-S	
Input Frequency	950-2150MHz
Symbol rate	2-45Msps
Signal Strength	- 65- -25dBm
FEC Demodulation	1/2, 2/3, 3/4, 5/6, 7/8 QPSK
QPSK-S2	
Input Frequency	950-2150MHz
Symbol rate	2-45Msps
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Input Impedance	75Ω
Demodulation Mode	QPSK, 8PSK
Frequency Stepping	500 KHz

DVB-T Modulator Section	
Standard	EN300744
FFT mode	2K, 8K
Bandwidth	6M, 7M, 8M
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC	1/2, 2/3, 3/4, 5/6, 7/8
MER	≥42dB
RF frequency	30~960MHz, 1KHz step
RF out	COFDM DVB-T out (1 or 2 carriers combined out optional)
RF output level	-30~ -10dbm (81~97 dbμV), 0.1db step

DVB-C Modulator Section	
Standard	J.83A , J.83B, J.83C
MER	≥42dB
RF frequency	30~960MHz, 1KHz step; (1 or 4 carriers combined out optional)
RF output level	-30~ -10dbm(81~97 dbμV), 0.1db step
Symbol rate	5.000~9.000Msps adjustable
J.83A	
Constellation	16/32/64/128/256QAM
bandwidth	8M
J.83B	
Constellation	64QAM/ 256QAM
bandwidth	6M
J.83C	
Constellation	64QAM/ 256QAM
bandwidth	6M

Stream Output
1*RF (1 or 2 carriers combined out)
2×ASI outputs, BNC interface
MPTS over UDP, 10/100Base-T Ethernet interface (UDP unicast / multicast)

Interface	
Local interface	LCD + control buttons
Remote management	Web NMS Management
Language	English

General	
Power supply	AC 100V~240V
Dimensions	482*300*44.5mm
Weight	4 kgs
Operation temperature	0~45℃

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