



NEW

# NDS3403F DVB-S2X IF Modulator



> Support RF CID

> Support DVB-S/S2/S2X

## CID TEST SAMPLE ILLUSTRATION

ControlCast Jupiter

HOME | CONFIG. | MONIT. | SCAN | CID | STATUS

### DVB Carrier ID Extraction

CID Extraction: ON

RF Input Selected: RF Input 1

L-Band CID Frequency: 999.991

Demod Lock: ON

CID Synchro: ON

CID Demod: ON

CID Content Available: ON

CID Extraction Progress:

Global Unique Identifier: AA:AA:BB:CC:DD:EE:FF:00:11

Format: 1

Latitude: 6.55.36, N

Longitude: 26.21.44, E

Telephone: +086011223344556677

User Data: 55552525252

Setting in NDS3403F Web management

CID MAC	00 : AA:BB:CC:DD:EE:FF:00:11	ON
Latitude	06 ' 55 ' 36 North	ON
Longitude	026 ' 21 ' 44 East	ON
Phone Number	+086011223344556677	ON
User Data	55552525252	ON

Apply    Get Config

Commands List: [Demod 1] TX TX 11 21 3B94CA0001A39DE00202000000000000000000004C4B40

Get\_Address: Set\_Demod\_Config RX TX 11 21

Connected ● Traffic ● Alarm ● Demod/FEC 1 ● Demod/FEC 2 ● ASI 1 ● ASI 2 ●

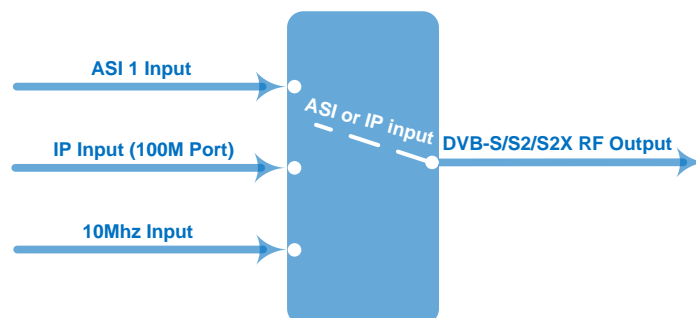
## Outline

DEXIN NDS3403F is a high-performance modulator developed according to DVB-S2X (EN302 307-2) standard which is the standard of third generation of the European broadband satellite telecommunication. It is to convert the input ASI and IP signals alternatively into digital DVB-S/S2/S2X IF output. BISS scrambling mode is inserted to this DVB-S2X modulator, which helps to safely distribute your programs. It is easy to reach local and remote control with NMS software and LCD in the front panel. With its high cost-effective design, DEXIN NDS3403F DVB-S2X IF modulator is widely used for broadcasting, interactive services, news gathering and other broadband satellite applications.

## Features

- Fully complying with DVB-S (EN300 421), DVB-S2 (EN302 307) and **DVB-S2X** (EN 302 307-2) standard
- 4 ASI inputs supporting backup (3 for backup)
- Support IP (100M) signal input
- QPSK, 8PSK, **8APSK, 16APSK, 32APSK** Constellations
- **Support RF CID setting (Optional as per order)**
- Constant temperature crystal oscillator, as high as 0.1ppm stability
- Support coupling 10Mhz clock output through RF output port
- Support BISS scrambling
- Support local and remote control with Web-server NMS
- Output frequency range: **50~960MHz**, 1KHz step

## Principle Chart



## Specifications



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

<b>ASI Input</b>	Supporting both 188 Byte Packet TS Input			
	4 ASI Inputs ( 3 ASI for backup)			
	Connector: BNC, Impedance 75Ω			
<b>IP Input</b>	1*IP Input (RJ45, 100M TS Over UDP)			
<b>10MHz Input</b>	1*10MHz Input (BNC Interface)			
<b>IF Output</b>	Range: 50 ~ 960 MHz, 1KHz step			
	Output Level Attenuation: -28.5dBm ~ +3 dBm, 0.5dB Step			
	MER ≥ 40dB			
	Connector: N type, impedance 50Ω			
<b>Channel Coding and Modulation</b>	Standard	<b>DVB-S</b>	<b>DVB-S2</b>	<b>DVB-S2X</b>
	Outer coding	RS Coding	BCH Coding	BCH Coding
	Inner coding	Convolution	LDPC Coding	LDPC Coding
	Constellation	QPSK	QPSK, 8PSK, 16APSK, 32APSK	QPSK, 8PSK, <b>8APSK</b> , 16APSK, 32APSK
	FEC/ Convolution Rate	1/2, 2/3, 3/4, 5/6, 7/8	<b>QPSK:</b> 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 <b>8PSK:</b> 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 <b>16APSK:</b> 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 <b>32APSK:</b> 3/4, 4/5, 5/6, 8/9, 9/10	<b>QPSK:</b> 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, <b>13/45, 9/20, 11/20</b> <b>8PSK:</b> 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 <b>, 23/36, 25/36, 13/18</b> <b>8APSK:</b> 5/9-L, 26/45-L <b>16APSK:</b> 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 <b>, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L,</b> <b>28/45, 23/36, 2/3-L, 25/36, 13/18, 7/9,</b> <b>77/90</b> <b>32APSK:</b> 3/4, 4/5, 5/6, 8/9, 9/10, <b>2/3-L,</b> <b>32/45, 11/15, 7/9</b>
	Roll-off Factor	0.2, 0.25, 0.35	0.2, 0.25, 0.35	0.05, 0.10, 0.15, 0.2, 0.25, 0.35
	Symbol Rate	0.05~45MspS	0.05~40MspS (32APSK); 0.05~45MspS (16APSK/8PSK/QPSK)	0.05~40MspS (32APSK, 32APSK-L); 0.05~45 Mbps (16APSK/8PSK/QPSK/16APSK-L/8APSK-L)
	BISS Scramble	Mode 1, Mode E		
	<b>System</b>	Web-server NMS		
Language: English				
Ethernet software upgrade				
<b>Miscellaneous</b>	Dimension	482mm×410mm×44mm		

	Temperature	0~45°C (operation), -20~80°C (storage)
	Power	100-240VAC±10%,50Hz-60Hz

## Order Guide

	NDS3402E	NDS3402F	NDS3403	NDS3403F
DVB-S/S2	●	●	●	●
DVB- S2X			●	●
RF output (950-2150MHz)	●		●	
IF output ( 50- 960MHz)		●		●