Modulator Series

ND3452　DVB-S2 Modulator　（With BISS）

Outline

The OPENSAT ND3452 DVB-S2 modulator (with BISS) is a high performance modulator developed according to DVB-S2 (EN302307) standard which is the standard of second generation of the European broadband satellite telecommunication. It adopts advanced framing structure, channel coding and modulation technology, increasing over 50% transmission ability more than DVB-S modulator under the same transmission condition and also providing a more powerful receiving ability in the same spectral efficiency. In addition, it is backwards-compatible with DVB-S (EN300421) modulating standard. This DVB-S2 modulator supports local and remote control through NMS software. The NDS3402 DVB-S2 modulator (with BISS) can be used for Broadcasting, Interactive Services, News Gathering and other Broadband satellite applications.

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Features

- Fully complying with DVB-S2(EN302307) standard

- Backwards-compatible with DVB-S (EN300421) modulating standard

- Two ASI inputs supporting hot backup

- Supporting BISS scrambling mode; mode0, mode1 and mode E optional

- Supporting local and remote control

- Output level attenuation

- 10MHz outer reference clock input

- Output frequency range: 950~2150MHz

- Full-size front panel LCD display and keyboard

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Specifications

		DVB-S	DVB-S2
MPEG-TS Input	Supporting both packet and byte mode TS input		
	Supporting 188/204Byte transmission stream packet		
	Two ASI inputs, supporting hot backup		
	ASI input connector: BNC, impedance 75Ω		
RF Output	Frequency is continuously adjustable from 950 to 2150MHz		
	Output Level attenuation is continuously adjustable from 0 to 31.5 dB; in step of 0.5 dB.		
	Maximum Output level: 0dBm		
	MER≥36dB		
	Connector: N type, impedance 50Ω		
Channel coding and modulation	Outer coding	DVB-S	DVB-S2
		RS coding	BCH coding
	Inner coding	Convolutional	LDPC coding
	Code Rate	1/2,2/3,3/4,5/6,7/8	1/2,3/5,2/3,3/4,4/5,5/6,8/9, 9/10
	Constellation	QPSK	QPSK,8PSK
	Roll-off Factor	0.2, 0.25, 0.35	0.2, 0.25, 0.35
	Symbol Rate	1~45MBauds	1~30M@8PSK; 1~45 M@QPSK
	BISS Scramble	----	Mode0, mode1, mode E
Miscellaneous	Dimension	44mm×482mm×410mm	
	Environmental	0~45℃(operation), -20~80℃ (storage)	
	Power	100-240VAC±10%,50Hz-60Hz	