

# PLATINIUM

- FW8PSK-DC-REF- modulator



## Outline

The PLATINIUM - FW8PSK-DC-REF- modulator DVB-S2 modulator is a high performance modulator developed according to DVB-S2 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 modulating standard. This DVB-S2 modulator supports local and remote control through SNMP/NMS software. For field scope, the device can be used for Broadcasting, Interactive Services, News Gathering and other Broadband satellite applications.

## Features

- ✧ Compliant to DVB-S2 and DVB-S standard ✧
- Two ASI inputs supporting hot backup with loop out
- ✧ Supporting local and remote control
- ✧ 1 external 10MHz reference clock input
- ✧ RF output frequency range: 950~2150MHz
- ✧ RF output level: -31.5~0dbm, 0.5db stepping
- ✧ Excellent RF performance,  $MER \geq 36db$

- ✧ Constant temperature crystal oscillator, as high as 0.1ppm stability
- ✧ Full-size front panel LCD display and keyboard
- ✧ Support network management(SNMP/NMS)

### Specifications

<b>MPEG-TS Input</b>	Supporting 188/204Byte transmission stream packet		
	Two ASI inputs, supporting hot backup with loop out		
	ASI input connector: BNC, impedance 75Ω		
<b>RF Output</b>	Frequency is continuously adjustable from 950 to 2150MHz		
	Output Level attenuation is continuously adjustable from -31.5~0 dB; 0.5 dB stepping		
	Maximum Output level: 0dBm		
	MER≥36dB		
	Connector: N type, impedance 50Ω		
	Coupling power supply: 24V/4A DC output		
	Coupling reference clock: 10MHz reference clock output		
<b>Channel coding and modulation</b>	Standard	DVB-S	DVB-S2
	Outer coding	RS coding	BCH coding
	Inner coding	Convolutional	LDPC coding
	Code Rate	1/2,2/3,3/4,5/6,7/8	QPSK:1/4,1/3,2/5,1/2,3/5,2/3,3/4, 4/5,5/6, 8/9, 9/10 8PSK:3/5,2/3,3/4,5/6,8/9,9/10
	Constellation	QPSK	QPSK,8PSK
	Roll-off Factor	0.2, 0.25, 0.35	0.2, 0.25, 0.35
	Symbol Rate	0.05~45Msps	0.05~30Msps(8PSK) 0.05~45 Msps(QPSK)
	<b>Miscellaneous</b>	Dimension	44mm×482mm×410mm
	Environmental	0~45℃(operation), -20~80℃ (storage)	
	Power	100-240VAC,50Hz-60Hz	

Order information:

		<b>NDS3402-C</b>
coupling 10Mhz clock		•
coupling 24V/4A power		•

