

SOLA-SAT MS2-70

70 MHz DVB-S2 Modulator



Outline

The **SOLA-SAT MS2-70** DVB-S2 70MHz modulator 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 Sola-sat MS2-70 DVB-S2 modulator can be used for Broadcasting, Interactive Services, News Gathering and other Broadband satellite applications.

Features

1. Fully complying with DVB-S2(EN302307) standard
2. Backwards-compatible with DVB-S (EN300421) modulating standard
3. Two ASI inputs supporting hot backup
4. Supporting local and remote control
5. Output level attenuation
6. 10MHz outer reference clock input
7. Output frequency range: 50~100MHz
8. Full-size front panel LCD display and keyboard

Specifications

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		
IF Output	Frequency is continuously adjustable from 50 to 100MHz		
	Output Level attenuation is continuously adjustable from 0 to 31 dB; in step of 1 dB.		
	Maximum Output level: 0dBm		
	MER≥42dB		
	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	
Miscellaneous	Dimension	44mmx482mmx410mm	
	Environmental	0~45℃(operation), -20~80℃ (storage)	
	Power	100-240VAC±10%,50Hz-60Hz	