

Sola-Sat MS2-LB

DVB-S2 L-Band Modulator (with BISS)



Outline

The Sola-Sat MS2-LB 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 more than 50% the transmission throughput compared with a DVB-S modulator operating under the same transmission conditions, and also providing a more powerful receiving ability in the same spectral efficiency range. This modulator 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-LB DVB-S2 modulator (with BISS) can be used for Broadcasting, Interactive Services, News Gathering and other Broadband satellite applications.

Features

1. Fully compliant with DVB-S2(EN302307) standard
2. Backwards-compatible with DVB-S (EN300421) modulating standard
3. Two ASI inputs supporting hot backup
4. BISS scrambling mode; mode0, mode1 and mode E optional
5. Supporting local and remote control
6. Output level attenuation
7. 10MHz outer reference clock input
8. Output frequency range: 950~2150MHz
9. 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		
RF Output	Frequency is continuously adjustable from 950 to 2150MHz		
	Output Level attenuation is continuously adjustable from 0 to 31.5 dB; in steps 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°C(operation), -20~80°C(storage)	
	Power	100-240VAC±10%,50Hz-60Hz	