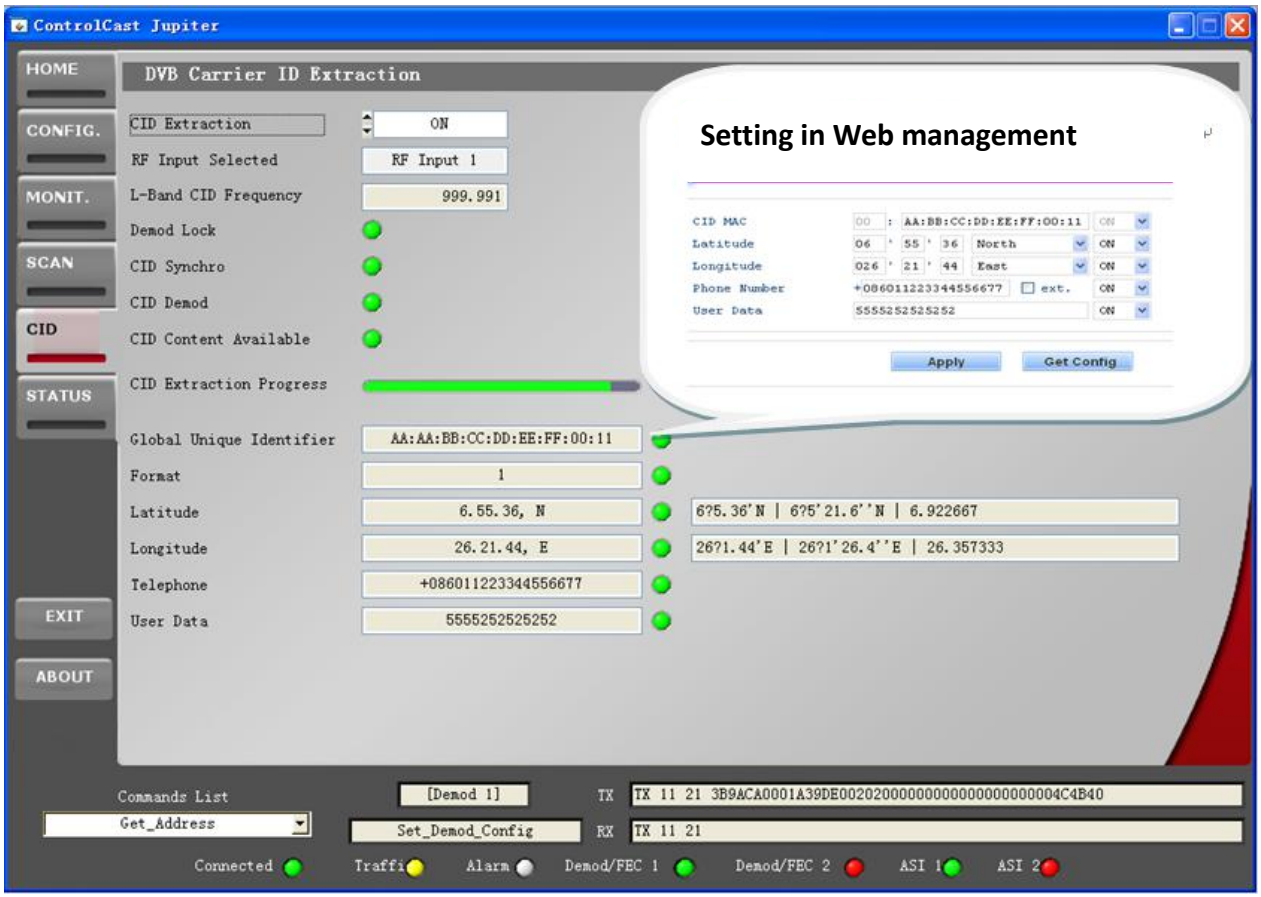
SOFTEL

DVB-S2 Modulator

NEW

Support Carrier-ID Setting

CID TEST SAMPLE ILLUSTRATION



Outline

This 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 is to convert the input ASI and IP signals alternatively into digital DVB-S/S2 RF output.

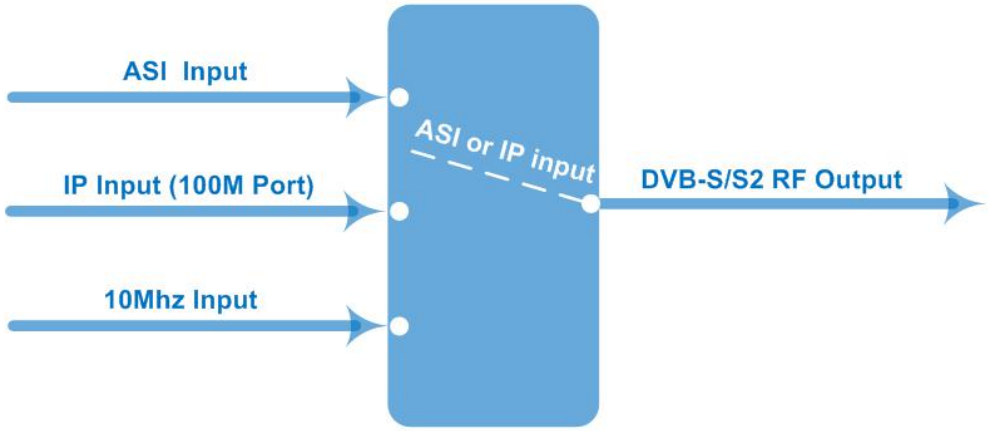
BISS scrambling mode is inserted to this DVB-S2 modulator, which helps to safely distribute your programs. It is easy to reach local and remote control with Web-server NMS software and LCD in the front panel.

With its high cost-effective design, this modulator is wildly used for broadcasting, interactive services, news gathering and other broadband satellite applications.

Features

- Fully complying with DVB-S2 (EN302307) and DVB-S (EN300421) standard
- 4 ASI inputs (3 for backup)
- Support IP (100M) signal input
- QPSK, 8PSK, 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 24V power output through RF output port
- Support BISS scrambling
- Support SFN TS transmission
- Output frequency range: 950~2150MHz, 10KHz stepping
- Support local and remote control with Web-server NMS

Principle Chart



Specifications

ASI Input	Supporting both188/204 Byte Packet TS Input		
	4 ASI Inputs, Supporting Backup		
	Connector: BNC, Impedance 75Ω		
IP Input	1*IP Input (RJ45, 100M TS Over UDP)		
10MHz Reference Clock	1*External 10MHz Input (BNC Interface); 1*Inner 10MHz Reference clock		
RF Output	RF Range: 950 ~ 2150 MHz, 10KHz stepping		
	Output Level Attenuation：-26 ~ 0 dBm，0.5dBm Stepping		
	MER≥40dB		
	Connector: N type, Impedance 50Ω		
Channel Coding and Modulation	Standard	**DVB-S**	**DVB-S2**
	Outer coding	RS Coding	BCH Coding
	Inner coding	Convolution	LDPC Coding
	Constellation	QPSK	QPSK,8PSK, 16APSK,32APSK
	FEC/ Convolution Rate	1/2, 2/3, 3/4, 5/6, 7/8	**QPSK:** 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 **16APSK:** 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 **32APSK:** 3/4, 4/5, 5/6, 8/9, 9/10
	Roll-off Factor	0.2, 0.25, 0.35	0.2, 0.25, 0.35
	Symbol Rate	0.05~45Msps	0.05~40Msps (32APSK);

			0.05~45 Msps (16APSK/8PSK/QPSK)
	BISS Scramble	Mode 0, mode 1, mode E	
System	Web-server NMS		
	Language: English		
	Ethernet software upgrade		
	24V power output through RF output port		
Miscellaneous	Dimension	482mm×410mm×44mm	
	Temperature	0~45℃(operation), -20~80℃ (storage)	
	Power	100-240VAC±10%,50Hz-60Hz	