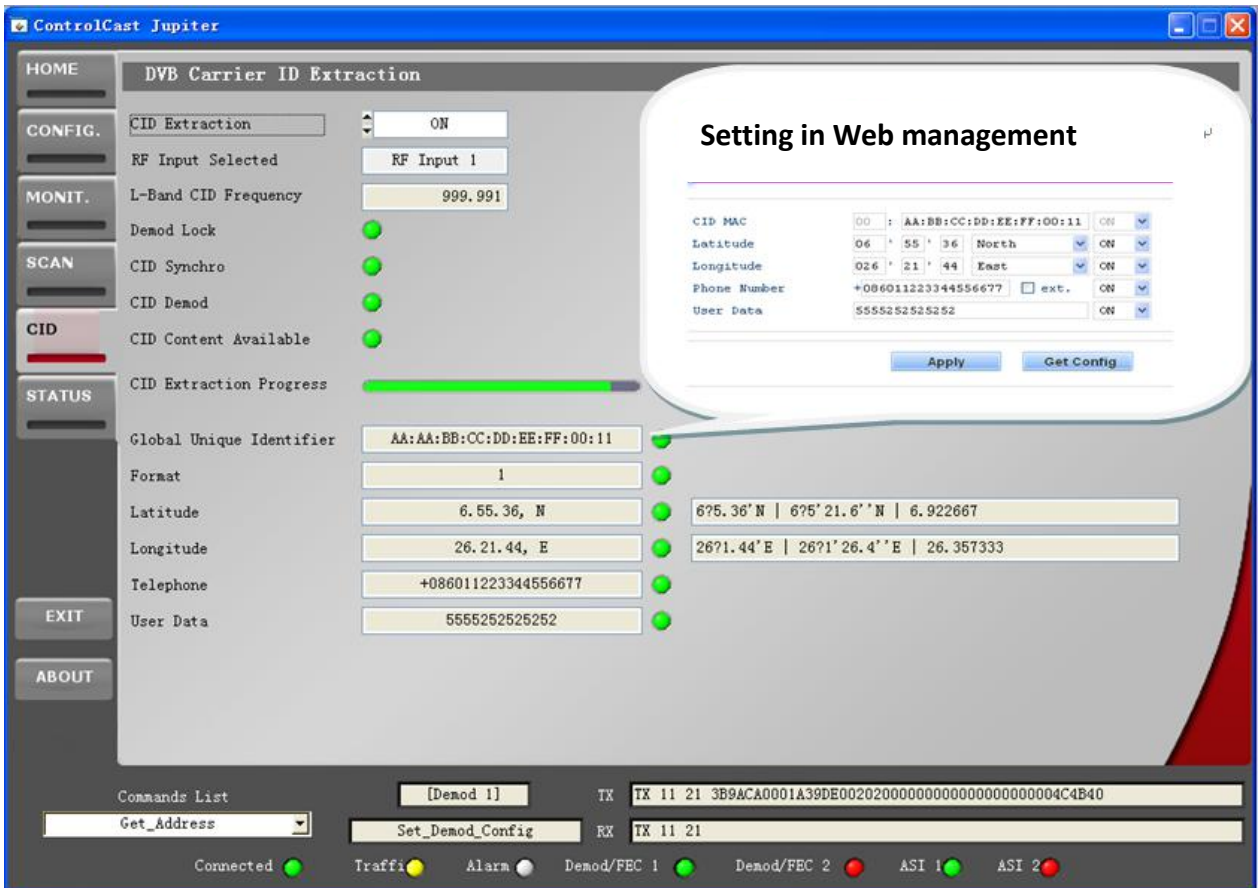


DVB-S2 Modulator



Support Carrier-ID Setting

CID TEST SAMPLE ILLUSTRATION



The screenshot shows the ControlCast Jupiter web interface for DVB Carrier ID Extraction. The interface is divided into several sections:

- HOME:** DVB Carrier ID Extraction
- CONFIG:** CID Extraction (ON), RF Input Selected (RF Input 1)
- MONIT.:** L-Band CID Frequency (999.991), Demod Lock (ON)
- SCAN:** CID Synchro (ON), CID Demod (ON)
- CID:** CID Content Available (ON)
- STATUS:** CID Extraction Progress (Progress bar), Global Unique Identifier (AA:AA:BB:CC:DD:EE:FF:00:11), Format (1), Latitude (6.55.36, N), Longitude (26.21.44, E), Telephone (+086011223344556677), User Data (5555252525252)

A pop-up window titled "Setting in Web management" displays the following configuration fields:

CID MAC	00	AA:BB:CC:DD:EE:FF:00:11	CID	
Latitude	06	55	36 North	ON
Longitude	026	21	44 East	ON
Phone Number	+086011223344556677		ext.	ON
User Data	5555252525252		ON	

Buttons: Apply, Get Config

At the bottom, there is a "Commands List" section with fields for [Demod 1], TX (TX 11 21 3B9ACA0001A39DE00202000000000000000000004C4B40), Get_Address, Set_Demod_Config, and RX (TX 11 21). Status indicators at the bottom show Connected, Traffic, Alarm, Demod/FEC 1, Demod/FEC 2, ASI 1, and ASI 2.

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.

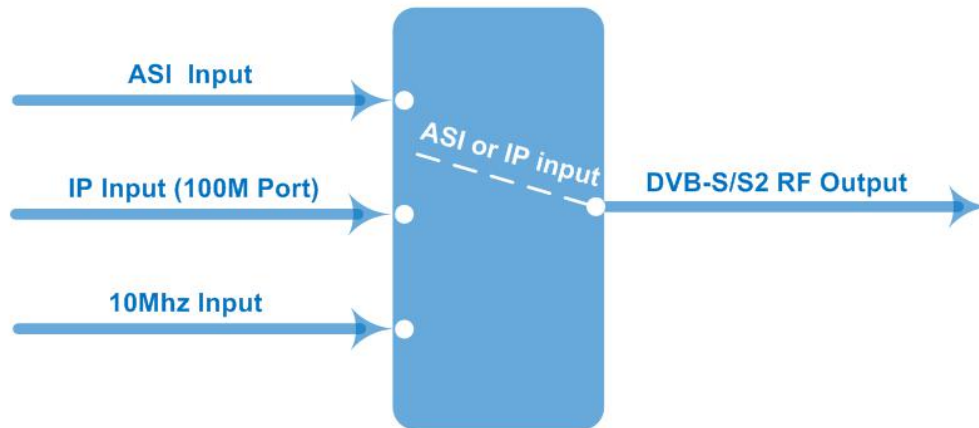
BISS scrambling mode is inserted to this DVB-S2 modulator, which helps to safely distribute your programs. It is easy to reach local and remote control with Web-server NMS software and LCD in the front panel.

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 both 188/204 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);

SOFTEL

		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°C (operation), -20~80°C (storage)
	Power	100-240VAC±10%,50Hz-60Hz