

HPS8303F DVB-S2X Modulator



The screenshot shows the ControlCast Jupiter web management interface. The main window is titled "DVB Carrier ID Extraction" and displays various settings and status information. A callout box titled "Settings in HPS8303F Web Management" highlights the configuration for CID MAC, Latitude, Longitude, Phone Number, and User Data.

Settings in HPS8303F Web Management

CID MAC	00	AA:BB:CC:DD:EE:FF:00:11	ON	
Latitude	06	55	36 North	ON
Longitude	026	21	44 East	ON
Phone Number	+086011223344556677		<input type="checkbox"/> ext.	ON
User Data	5555252525252		ON	

Main Interface Settings:

- CID Extraction: ON
- RF Input Selected: RF Input 1
- L-Band CID Frequency: 999.991
- Demod Lock: ON
- CID Synchro: ON
- CID Demod: ON
- CID Content Available: ON
- 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

Status and Commands:

- Commands List: [Demod 1] TX TX 11 21 3B94CA0001A39DE0020200000000000000000000004C4B40
- Get_Address: [Dropdown]
- Set_Demod_Config: [Dropdown] RX TX 11 21
- Connected: ON
- Traffic: OFF
- Alarm: OFF
- Demod/FEC 1: ON
- Demod/FEC 2: OFF
- ASI 1: ON
- ASI 2: OFF

CID TEST SAMPLE ILLUSTRATION

Outline

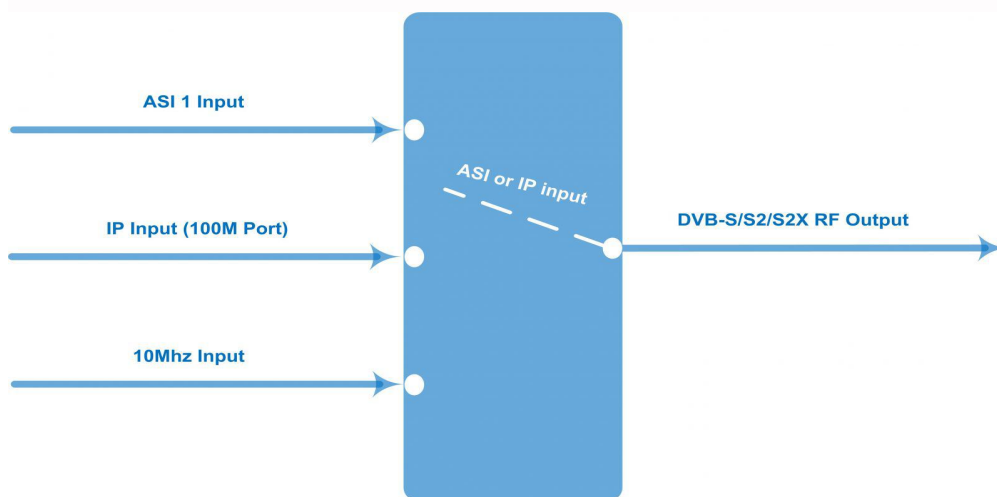
HPS8303F DVB-S2X Modulator is a high-performance modulator developed according to DVB-S2X (EN302 307-2) standard which is the standard of third generation of the European broadband satellite telecommunication. It is to convert the input ASI and IP signals alternatively into digital DVB-S/S2/S2X RF output.

BISS scrambling mode is inserted to this DVB-S2X modulator, which helps to safely distribute your programs. It is easy to reach local and remote control with NMS software and LCD in the front panel. With its high cost-effective design, HPS8303F DVB-S2X modulator is widely used for broadcasting, interactive services, news gathering and other broadband satellite applications.

Features

- **Fully complying with DVB-S (EN300 421), DVB-S2 (EN302 307-1) and DVB-S2X (EN 302 307-2) standard**
- **4 ASI inputs supporting hot backup (3 for backup)**
- **Support IP (100M) signal input**
- **QPSK, 8PSK, 16APSK, 32APSK, 8PSK-L, 16APSK-L, 32APSK-L Constellations**
- **Support RF CID setting**
- **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 local and remote control with SNMP or Web-server NMS**
- **Support SFN TS (with MIP or IIP) transmission**

Principle Chart



Specifications

ASI Input	Supporting both 188/204 Byte Packet (MPEG2/MPEG4) TS Input			
	4 ASI Inputs, Supporting Hot Backup			
	Connector: BNC, Impedance 75Ω			
IP Input	1*IP Input (Rj45, 100M TS Over UDP)			
SFN output	MIP or IIP			
10MHz Input	1*10Mhz Input (BNC Interface)			
RF Output	RF Range: 950 ~ 2150 MHz, 10KHz stepping			
	Output Level Attenuation :-10.0 dBm~-41.5 dBm, 0.5dB Stepping			
	MER≥40dB			
	Connector: N type, impedance 50Ω			
Channel Coding and Modulation	Standard	DVB-S	DVB-S2	DVB-S2X
	Outer coding	RS Coding	BCH Coding	BCH Coding
	Inner coding	Convolution	LDPC Coding	LDPC Coding
	Constellation	QPSK	QPSK,8PSK, 16APSK,32APSK	QPSK,8PSK, 16APSK,32APSK 8PSK-L,16APSK-L,32APSK-L
	FEC/ Convolution 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 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10	QPSK: 13/45, 9/20, 11/20 8PSK: 23/36, 25/36, 13/18 16APSK: 26/45, 3/5, 28/45, 23/36, 25/36, 13/18, 7/9, 77/90 32APSK: 32/45, 11/15, 7/9 8PSK-L: 5/9, 26/45 16APSK-L: 5/9, 8/15, 1/2, 3/5, 2/3 32APSK-L: 2/3
	Roll-off Factor	0.2,0.25,0.35	0.2, 0.25, 0.35	0.05, 0.10, 0.15
	Symbol Rate	0.5~45Msps	0.5~40Msps (32APSK); 0.5~45Msps (16APSK/8PSK/QPSK)	0.5~40Msps(32APSK,32APSK-L); 0.5~45 Msps (16APSK/8PSK/QPSK/16APSK-L/8PSK-L)
	BISS Scramble	Mode 0, mode 1, mode E		
System	SNMP/Web-server NMS			
	Language: English			

Order Guide

	HPS8302F	HPS8303F
DVB-S/S2	•	•
DVB- S2X		•
QPSK, 8PSK, 16APSK, 32APSK Constellation	•	•
8PSK-L,16APSK-L,32APSK-L Constellation		•