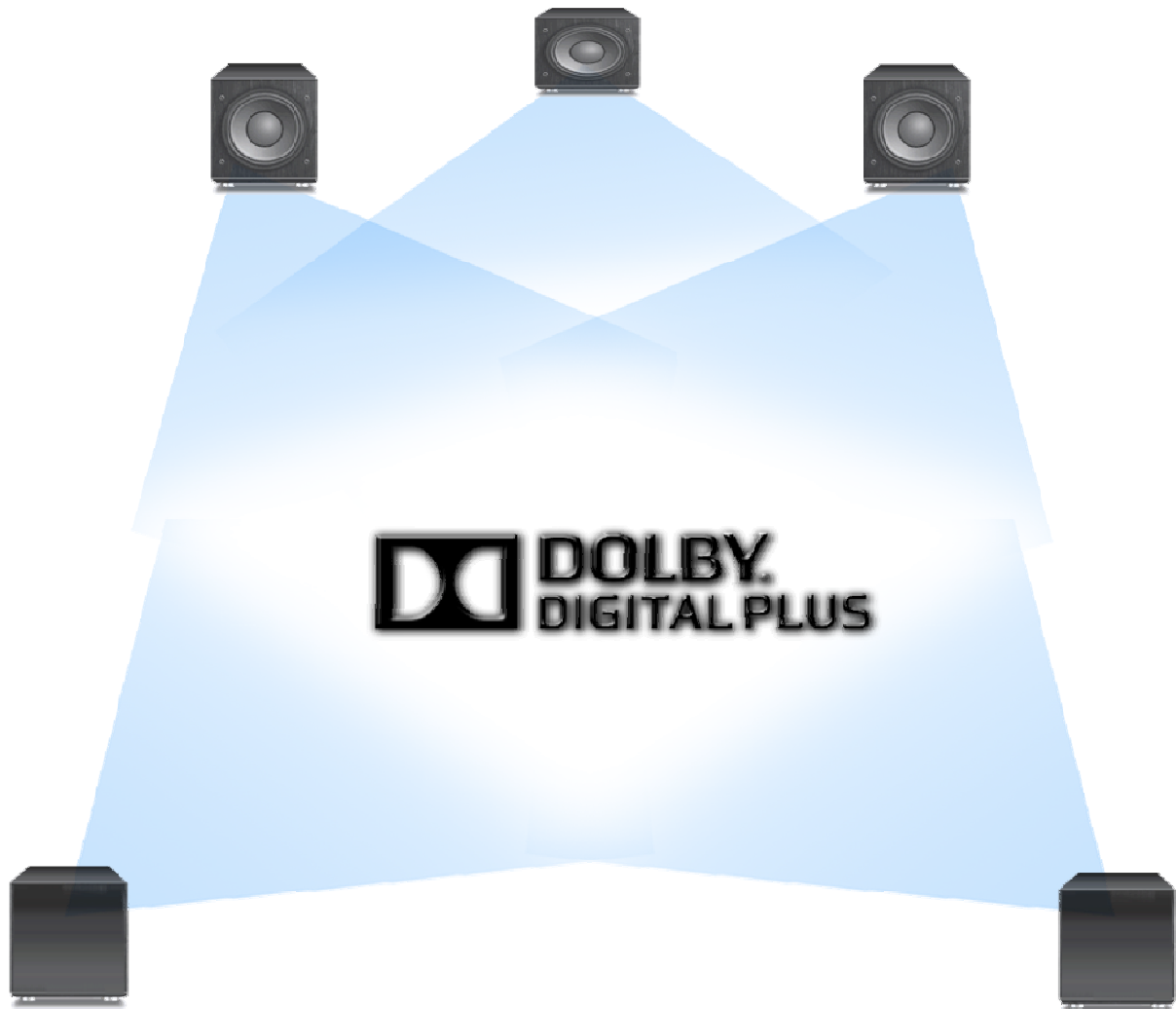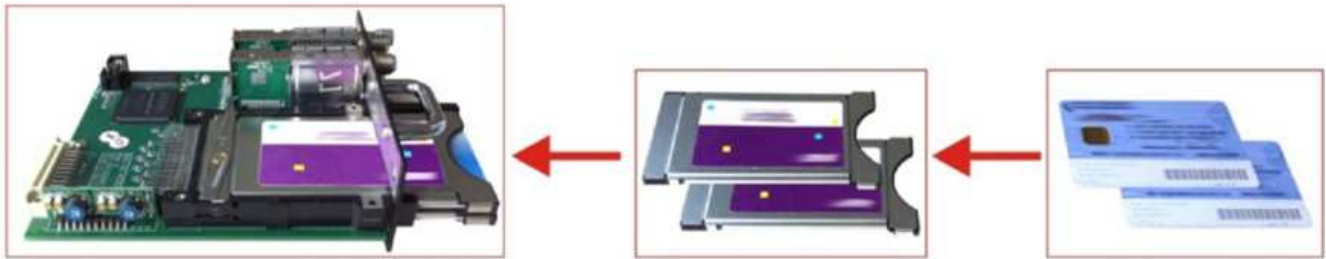# HP3565H DVB-S2 HD IRD

Demodulation Module = 2*RF/Loop out + 2*CAM + 2*Smartcard

Product Introduction

HP3565H DVB-S2 HD IRD is all-in-one device which integrates demodulation, de-scrambler, re-mux and decoding in one case to convert RF signals into audio/video, (CVBS/YPbPr/HDMI/SDI) output.

It is a 1-U case which supports 2 tuner inputs to receive signal from satellite, cable or terrestrial devices. The two CAMs/CIs accompanied and BISS modules can descramble the programs input from encrypted RF, ASI and IP.

Its pluggable structure design greatly facilitates the change of modules (demodulator or decoder) as needed.
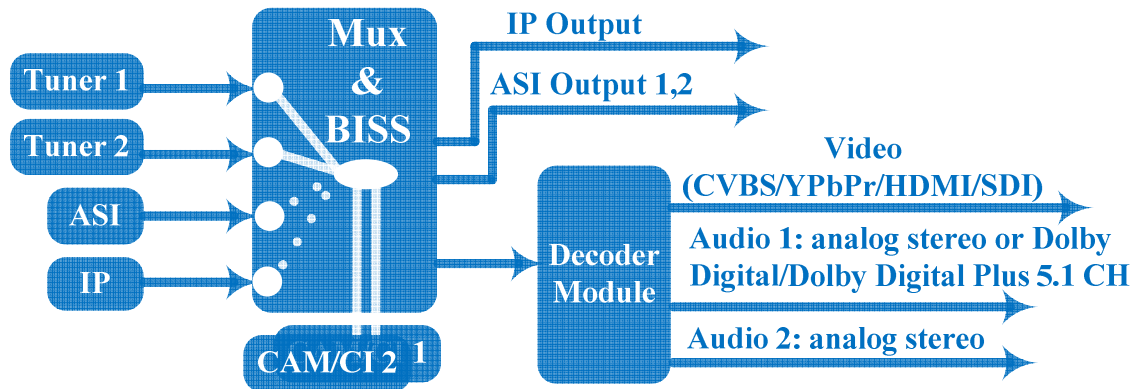
To meet customers' various requirements, HP3565H is also equipped with ASI and IP input for re-mux, and output with 2 ASI ports and IP port.

Key Features

- Demodulation + descrambler +re-mux+decoder modules in one box
- 2 DVB-S/S2 Tuner inputs
- 1 ASI & 1 IP (UDP) input for re-mux
- One CAM can decrypt multiple programs from Tuners/ASI/IP
- Support BISS descrambling (Up to 120Mbps)
- One channel video output with various interface option (MPEG2/H.264)
- Dual stereo audio output, or one Dolby Digital/Dolby Digital Plus (5.1) channel output
- Support Dolby Digital/Dolby Digital Plus Decoding and passthrough
- IP (1 MPTS & 8 SPTS) over UDP and RTP/RTSP output; ASI out
- Support CC, Subtitle and Teletext
- Support maximum 128 PID mapping per input
- Pluggable and changeable demodulator and decoder modules

- ■ **LCD display, Remote control and Firmware, web NMS management**
- ■ **Updates via web**

Principle Chart

Technical Specifications

Input	
2 x DVB-S/S2 RF, F type	
1×ASI input for re-mux, BNC interface	
1xIP input for re-mux (UDP)	

Demodulating Section	
DVB-S	
Input Frequency	950-2150MHz
Symbol rate	2-45Msps
Signal Strength	- 65- -25dBm
Constellation	1/2, 2/3, 3/4, 5/6, 7/8 QPSK
DVB-S2 (Version 1)	
Input Frequency	950-2150MHz
Symbol rate	QPSK 1~45Mbauds; 8PSK 2~30Mbauds
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Constellation	QPSK, 8PSK
DVB-S2 (Version 2)	
Input Frequency	950-2150MHz
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Constellation	QPSK, 8PSK, **16APSK, 32APSK**
Symbol rate	QPSK 1~45 Msps; 8PSK1~45 Msps; 16APSK 1~45 Msps; 32APSK 1-32 Msps

Descrambling	
CAM/CI Quantity	2
BISS Mode	Mode 1, Mode E (up to 120Mbps)
Output	

IP Output	1*MPTS & 8*SPTS over UDP, RTP/RTSP.
	100 Base-T Ethernet interface (unicast / multicast)
2×ASI	BNC interface, mirrored out
Decode Output	Video Interface: 1xCVBS/YPbPr/HDMI/SDI
	Video Decode: MPEG-2; MPEG4 AVC/H.264
	Resolution: 480i, 480p, 576i, 576p, 720p@50/59.94/60, 1080i@50/59.94/60
	Chroma: 4:2:0
	Audio Interface: 2 x Stereo/4xmono, HDMI, SDI
	Audio Decode: MPEG 1 Layer II, LC-AAC, HE-AAC, Dolby Digital/ Dolby Digital Plus
	Audio Output Mode: Left, Right, Stereo, 5.1 CH (for HDMI/SDI out only)

System	
Local interface	LCD + control buttons
Remote management	Web-server Management
Language	English
Upgrade	USB, web management

General	
Power supply	AC 100V~240V
Dimensions	482*300*44.5mm
Weight	3 kgs
Operation temperature	0~45℃

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Ordering Guide

HP356xH, 'x' should be interpreted as different digits which indicate tuners of different standard.
- ✓ HP3561H DVB-C HD IRD
- ✓ HP3564H DVB-T/T2 HD IRD
- ✓ HP3565H DVB-S/S2 HD IRD
- ✓ HP3567H ATSC-T HD IRD