



**4\* HDMI/YPbPr/AV ➡ DVB-C/DVB-T/ISDB-T/ATSC RF**

**--- MPEG2 HD & MPEG4 AVC/H.264 HD Encoding**



## Product Overview

HP814B series products are HIPRO's all-in-one devices which integrate encoding (MPEG-2, MPEG-4/AVC H.264) and modulation to convert HDMI/YPbPr/AV signals etc to digital RF output. To meet customers' various requirements, HP814B is also equipped with 1 ASI input, and output with 2 ASI ports and 1 IP port.

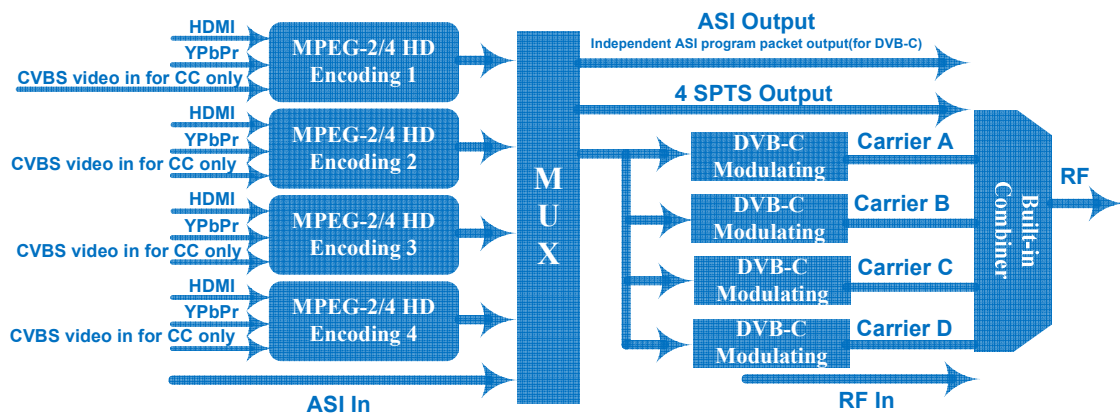
The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, and antenna etc. Its output signals are to be received by TVs, STB and etc with corresponding standard.

Hipro HP814B series products are wildly used in public places such as metro, market hall, theatre, hotels, restaurants and etc for advertising, monitoring, training and educating in company, schools, campuses, hospital... It's a good choice to offer HD channels and more.

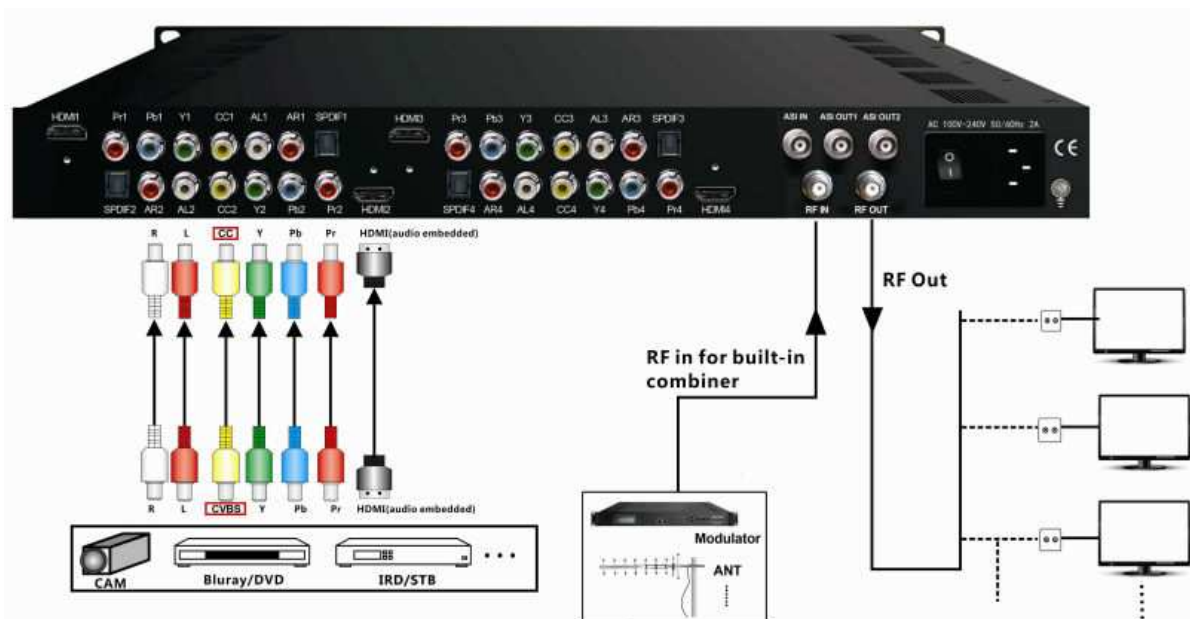
## Key Features

- MPEG2 HD & MPEG4 AVC H.264 HD/SD video encoding
- DD AC3 (2.0), MPEG4-AAC, MPEG2-AAC, MPEG1 Layer II audio encoding
- Support DD AC3 (2.0/5.1/7.1) passthrough
- 4\* HDMI/YPbPr /AV channels in
- 1\*ASI in for re-mux; 1\*RF in for RF mix
- 4\*DVB-C RF out (2\* DVB-T RF, 2\*ISDB-T,4\*ATSC out optional); ASI out; IP out
- Support CC (Closed Caption) EIA608, (from CVBS source only)
- Support Low Delay
- LCN (Logical Channel Number) support
- Excellent modulation quality
- LCD display, Remote control and firmware
- Web-based NMS management; Updates via web

## Principle Chart



For DVB-T output, it is designed to support 2 adjacent carriers  
 For ISDB-T output, it is designed to support 2 adjacent carriers  
 For ATSC output, it is designed to support 4 adjacent carriers



# Specifications

## Encoding Section

### Video (HDMI)

Encoding	MPEG2; MPEG4 AVC/H.264
Interface	HDMI*4
Resolution	1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P
Low Delay	Normal, Mode 1, Mode 2
Aspect Ratio	4:3; 16:9

### Audio (HDMI)

Encoding	MPEG1 Layer II; MPEG2-AAC; MPEG4-AAC; DD AC3(2.0); DD AC3 (2.0/5.1/7.1) passthrough
Interface	HDMI*4 (SPDIF Not Applicable)
Sample rate	48KHz
Bit rate	64/96/128/ 192/256/320kbps

### Video (YPbPr)

Encoding	MPEG2; MPEG4 AVC/H.264
Interface	YPbPr*4 (RCA)
Resolution	1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P

### Audio (L/R)

Encoding	MPEG1 Layer II; MPEG2-AAC; MPEG4-AAC; DD AC3(2.0); DD AC3 (2.0/5.1/7.1) passthrough
Interface	4*Stereo/8*mono
Sample rate	48KHz
Bit rate	64/96/128/ 192/256/320kbps

## DVB-T Modulator Section (Option)

Standard	EN300744
FFT mode	2K, 8K
Bandwidth	6M, 7M, 8M
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC	1/2, 2/3, 3/4, 5/6, 7/8
MER	≥42dB
RF frequency	30~960MHz, 1KHz step
RF out	COFDM DVB-T out (2 carriers combined out)
RF output level	-30~ -10dbm (81~97 dbμV), 0.1db step

## DVB-C Modulator Section (Option)

Standard	J.83A (DVB-C), J.83B, J.83C		
MER	≥43dB		
RF frequency	30~960MHz, 1KHz step		
RF output level	-30~ -10dbm (77~97 dbμV), 0.1db step		
Symbol rate	5.000~9.000MSPS adjustable		
RF Out	4*DVB-C adjacent carriers combined output		
	<b>J.83A</b>	<b>J.83B</b>	<b>J.83C</b>
Constellation	16/32/64/128/ 256 QAM	64/ 256 QAM	64/ 256 QAM
Bandwidth	8M	6M	6M

## ISDB-T Modulator Section (Option)

Standard	ARIB STD-B31
Constellation	DQPSK, QPSK, 16QAM, 64QAM
Guard Interval	1/32, 1/16, 1/8, 1/4
Transmission Mode	2K, 4K, 8K
Guard Interval	1/32, 1/16, 1/8, 1/4
Code rate	1/2, 3/4, 5/6, 7/8
RF frequency	30~999MHz, 1KHz step

## ATSC Modulator Section (Option)

Standard	ATSC A/53
Constellation	8 VSB
RF output level	-30~ -10dbm (77~97 dbμV), 0.1db step
MER	≥42dB
RF frequency	30~999MHz, 1KHz step
RF output level	-30~ -10dbm (77~97 dbμV), 0.1db step

## System

Local interface	LCD + control buttons
Remote management	Web NMS
Stream Out	2 ASI mirrored out (BNC type, 100M); IP (4 SPTS) over UDP, RTP/RTSP out (RJ45, 100M)
NMS interface	RJ45, 100M
Language	English

## General

Power supply	AC 100V~240V
Dimensions	482*400*44mm
Weight	4.5 kg
Operation temperature	0~45℃