

IRD3711

dibsys

Satellite DVB-S/S2/S2X HD CI IRD



IRD3711 is a professional integrated demodulation, de-scrambler, re-mux and decoding in one case, which supports the transmission standard DVB-S2X/S2/S, ASI, TS/IP or IPTV and decode to HD-MI, CVBS, SDI, BNC, XLR interface and SPDIF. It receives signals from satellite and gives content out through various video/audio interfaces after demodulating, de-scrambling, re-multiplexing and decoding.

The two CAMs/CIs accompanied and BISS modules can descramble the programs input from encrypted RF, ASI and IP of decoder for encrypted channels.

Its pluggable structure design greatly facilitates the change of modules (demodulator or decoder) as needed. Our professional HD integrated receiver decoder is also equipped with ASI and IP input for re-mux, and output with ASI port and IP port.

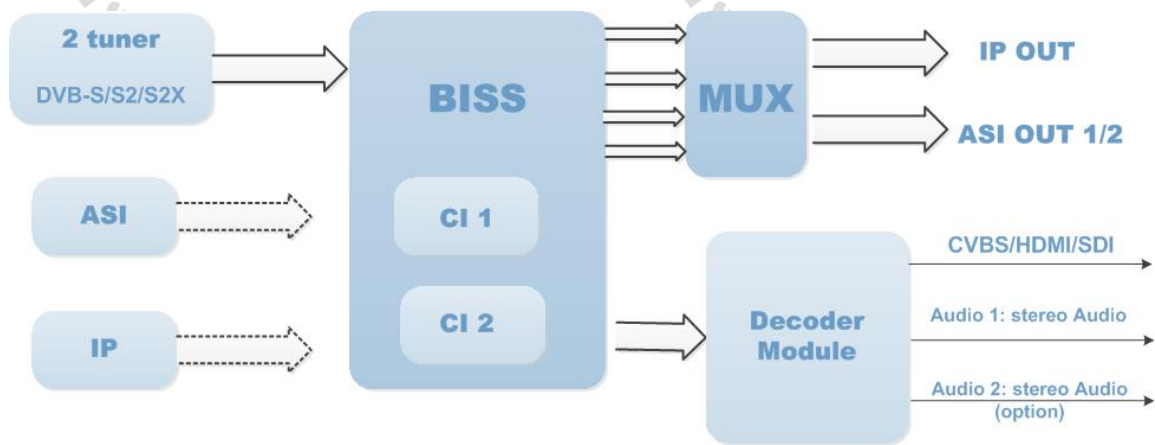
Features

- Demodulator + descrambler + re-mux+ decoder modules in one box
- 2 *DVB-S/S2/S2X Tuner input
- 1*ASI & 1*IP (UDP) input for re-mux
- Each CAM can decrypt multiple programs from Tuner/ASI/IP
- BISS descrambling (Up to 120Mbps)
- 4:2:0 HD/SD MPEG2, MPEG4 AVC/H.264 and HEVC/H.265 decoding
- Audio decoding: MPEG 1 Layer II, LC-AAC, HE-AAC, HE-AAC V2, Dolby Digital/Dolby Digital Plus and AC3 passthrough
- Dual Stereo audio out (for SDI interface)
- IP (1*MPTS & 8*SPTS) output over UDP and RTP/RTSP; 2*ASI mirrored out
- CC (EIA608, EIA708) & Teletext (developing/Only for SDI) supported
- Support maximum 128 PID mapping per input
- Pluggable and changeable design
- LCD/Keyboard and web-based NMS management
- Updates via web

Applications

- Digital TV broadcasting system.
- Point to Point IP long distance transmission.
- Lower-cost transition to IP-based services.
- Multi-audio digital TV headend encoder decoder in video contribution and distribution.

Principle Chart



TECHNICAL SPECIFICATIONS

Input interfaces

2 x Tuner, F type
1xASI input for re-mux, BNC interface
1xIP input for re-mux (UDP)

Demodulating Section

DVB-S

Input Frequency 950 ~ 2150MHz
Symbol rate 0.5~45Mpsps
Signal Strength - 65- -25dBm
FEC 1/2, 2/3, 3/4, 5/6, 7/8
Constellation QPSK
Max input bitrate ≤160 Mbps

DVB-S2

Input Frequency 950 ~ 2150MHz
Symbol rate QPSK/8PSK /16APSK :0.5~45 Mpsps
32APSK: 0.5~40Mpsps;
FEC 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
Constellation QPSK, 8PSK, 16APSK, 32APSK
Max input bitrate ≤160 Mbps

DVB-S2X

Input Frequency 950 ~ 2150MHz
Symbol rate QPSK/8PSK /16APSK :0.5~45 Mpsps
8APSK/32APSK: 0.5~40Mpsps
FEC QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20
8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
8APSK: 5/9-L, 26/45-L
16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36 , 2/3-L, 25/36, 13/18, 7/9, 77/90
32APSK: 3/4, 4/5, 5/6, 8/9, 2/3-L, 32/45, 11/15, 7/9

Constellation
Max input bitrate

QPSK/8PSK/8APSK/16APSK/32APSK
≤160 Mbps

Descrambling

CAM/CI Quantity
BISS Mode

2
Mode 1, Mode E; up to 120Mbps

Output

IP Output

1*MPTS & 8*SPTS over UDP, RTP/RTSP.
100Base-T Ethernet interface
(unicast / multicast)

2xASI
Decode Output
Resolution

BNC interface, mirrored out
Video Interface: 1xCVBS/HD-MI/SDI
1920×1080_60p, 1920×1080_60i,
1920×1080_50p; 1920×1080_50i;
1280×720_60P, 1280×720_50P; 480i, 576i
4:2:0
MPEG-2, MPEG4 AVC/H.264 and HEVC/H.265
HD-MI, SDI, SPDIF, BNC, XLR, AES
MPEG 1 Layer II, LC-AAC, HE-AAC, HE-AAC
V2, Dolby Digital/ Dolby Digital Plus
Left, Right, Stereo
Stereo audio*2 (Applicable for SDI port only)
1 or 2 for option

Chroma
Video Decode
Audio Interface
Audio Decode

Audio Output Mode

Number of Audio channels

Management

Local interface
Remote management
Upgrade

LCD + control buttons
Web-server Management
USB, web management

Environment

Power supply
Dimensions
Weight
Power consumption
Operation temperature

100~240VAC, 50/60Hz
482*mm*300mm*44.5mm
3.5Kg
20W
0 ~45℃