

IRD3711

DIBVISION | DIBSYS

Satellite DVB-S/S2/S2X HD CI IRD

DVB-S DVB-S2 DVB-S2X DVB-C DVB-T DVB-T2 ISDB-T
CABLE TERRESTRIAL

SDI HDMI CVBS CC BISS

H.265 HEVC H.264 MPEG-4/AVC MPEG2 DOLBY DIGITAL



IRD3711 is a professional integrated demodulation, de-scrambler, re-mux and decoding in one case, which supports the transmission standard DVB-C, DVB-T/T2, ISDB-T, 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.

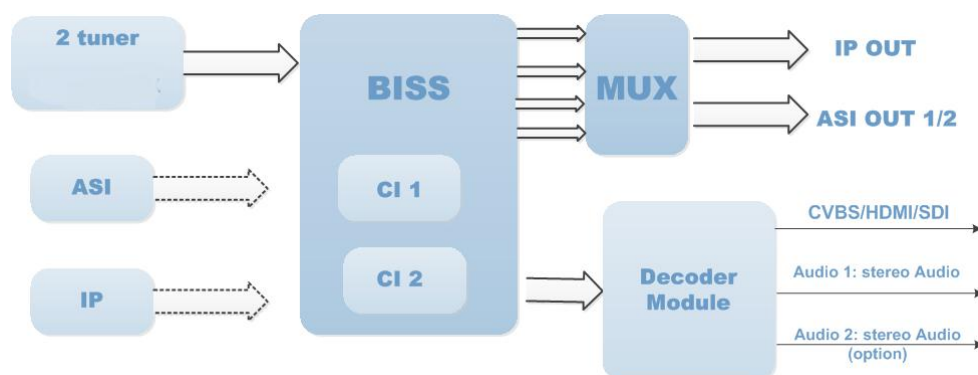
Features

- Demodulator + descrambler + re-mux+ decoder modules in one box
- 2 *DVB-C/T/T2/ISDB-T/S/S2/S2X optional Tuner input
- 2*ASI & 16*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 & 16*SPTS) output over UDP and RTP/RTSP; 2*ASI mirrored out
- CC (EIA608, EIA708) & Teletext (Only for SDI) supported
- Support maximum 128 PID mapping per input
- 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
 2xASI input for re-mux, BNC interface
 16xIP input for re-mux (UDP)

Demodulating Section (DVB-C, DVB-T/T2, ISDB-T)

DVB-C

Input Frequency 60~890 MHz

Standard	J.83A, J.83C	J.83B
Constellation	16/32/64/128/256 QAM	64/256 QAM

DVB-T/T2

Input Frequency 60~890 MHz
 Bandwidth 6/7/8 M

ISDB-T

Input Frequency 60~890 MHz

DVB-S/S2/S2X version

DVB-S

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

Descrambling

CAM/CI Quantity 2
 BISS Mode Mode 1, Mode E; up to 120Mbps

Output

IP Output 1*MPTS & 16*SPTS over UDP, RTP/RTSP.
 1*100Base-T Ethernet interface, 2 ports optional (unicast / multicast)
 2xASI BNC interface, mirrored out
 Decode Output Video Interface: 1xCVBS/HD-MI/SDI
 Resolution 1920x1080_60p, 1920x1080_60i, 1920x1080_50p; 1920x1080_50i; 1280x720_60P, 1280x720_50P; 480i, 576i 4:2:0
 Chroma MPEG-2, MPEG4 AVC/H.264 and HEVC/H.265
 Video Decode HD-MI, SDI, SPDIF, BNC, XLR, AES
 Audio Interface MPEG 1 Layer II, LC-AAC, HE-AAC, HE-AAC V2, Dolby Digital/ Dolby Digital Plus
 Audio Decode Left, Right, Stereo
 Audio Output Mode Stereo audio*2 (Applicable for SDI port only)
 Number of Audio channels 1 or 2 for option

Management

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

Environment

Power supply 100~240VAC, 50/60Hz
 Dimensions 482*mm*300mm*44.5mm
 Weight 3.5Kg
 Power consumption 20W
 Operation temperature 0 ~45°C

Ordering Information

Model	tuner	Audio
IRD3711A	①DVB-C, DVB-T/T2, ISDB-T ②DVB-S/S2/S2X ③DVB-S/S2/S2X + DVB-C/ DVB-T/T2/ ISDB-T	One channel audio Left, Right, Stereo
IRD3711B	①DVB-C, DVB-T/T2, ISDB-T ②DVB-S/S2/S2X ③DVB-S/S2/S2X + DVB-C/ DVB-T/T2/ ISDB-T	Dual Stereo audio (for SDI interface)