



DIBSYS IRD1311 HD IRD Decoder Owner's Manual

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DIBSYS IRD1311 HD IRD Decoder



Product Information

The Dibsyes Technologies IRD1311 is a device designed to demodulate scrambled broadcast streams from satellite, cable, terrestrial, IP networks, and local headends. It features DVB-ASI and offers various key features:

- DVB-S/S2 (or DVB-C, DTMB) RF demodulation and TS descrambling
- Universal MPEG-2, MPEG-4 AVC SD/HD/FHD, AVS and AVS+ video decoding
- MPEG-1 Layer 2, DRA2.0 audio decoding, optional AAC decoding
- Dual DVB-CI slots compliant with EN 50221 for supporting major CA systems
- Supports various decoding outputs: composite video, unbalanced audio, HDMI, and 3G-SDI

- HDMI supports up to 1080P50/60, SDI supports up to 3G with optional audio embedding
- Supports 4:2:2 input/output
- MPEG TS-over-UDP/RTP inputs and outputs supporting SPTS and MPTS
- Dual ASI inputs and outputs
- Supports LCD for local control
- Supports Web and SNMP-based management
- Power failure memory function

Product Usage Instructions

The Dibsys Technologies IRD1311 has multiple applications:

- Video contribution and distribution in TV studio stations
- Satellite digital TV, terrestrial digital TV, and cable TV broadcasting
- Contribution decode of high bitrate H.264 video service

IRD1311 was designed to demodulate the scrambled broadcast streams from satellite (or cable, terrestrial) network, IP network and local headend featured with DVB-ASI.

In order to cater for demands of interoperability of different operators broadcast services, IRD1311 is equipped with two DVB-CI complied Common Interfaces to meet the demands of descrambling for different scrambled programs using different DVB SimulCrypt CA(s), and supports up to 140Mbps of de-scrambling output bit rates for SD, HD and Full HD MPEG-2, MPEG-4 AVC, AVS and AVS+ broadcast services. It supports various decoding output interfaces, composite video, unbalanced stereo audio, HDMI and 3G-SDI outputs, It can be widely used for broadcast distribution and contribution.

Application

- Video Contribution and Distribution in TV studio Station
- Satellite digital TV, Terrestrial digital TV, Cable TV broadcasting
- Contribution decode of high bitrate H.264 video service

Key Features

- DVB-S/S2 (or DVB-C, DTMB) RF demodulation, TS descrambling
- Universal MPEG-2, MPEG-4 AVC SD/HD/FHD, AVS and AVS+ video decoding
- MPEG-1 Layer 2, DRA2.0 audio decoding, optional AAC decoding
- Dual DVB-CI slots, standard common interface complied with EN 50221, supporting most major CA systems
- Up to 72Mbps of descrambling bit rate each CAM
- Support various decoding outputs: composite video, unbalanced audio, HDMI and 3G-SDI
- HDMI supports up to 1080P50/60, SDI supports up to 3G.
- SDI audio embedding set optional
- Support 4:2:2 input/output
- MPEG TS-over-UDP/RTP inputs and outputs, supporting SPTS and MPTS
- Dual ASI inputs and outputs
- Support LCD for local control
- Support Web and SNMP-based management

- Power failure memory function

Technical Specifications

The device has the following technical specifications:

DVB-S/S2 Tuner Input

- Input Standards: DVB-S (EN300421), DVB-S2(EN302307)
- Constellations: DVB-S: QPSK, DVB-S2: QPSK/8PSK
- Frequency Range: 950MHz to 2150MHz
- Input Signal Level: -65 to -25dBm
- LNB Power Output: 0V/+DC 13V/18V, I_{max}=400mA

DVB-C Tuner Input

- Input Standards: DVB-C (EN300 429)
- Constellations: 16/32/64/128/256QAM
- Frequency Range: 51 to 858MHz
- Input Signal Level: -20 to +20dBm (64QAM)

DTMB Tuner Input

- Input Standards: DTMB (GB20600-2006)
- Constellations: 4QAM, 4QAM-NR, 16/32/64 QAM
- Carrier Mode: SCPC and MCPC
- FEC Mode: 0.4/0.6/0.8
- Frequency Range: 54 to 860MHz
- Input Signal Level: >-84dBm

TS In/Output Interfaces

• ASI Input:

- Numbers of Interface: 2
- Connector Type: BNC (Female, 75)
- Operation Mode: Independent Input
- Data Format: 188/204 Bytes
- Bit Rate: 1.5 to 100 Mbps each

• ASI Output:

- Numbers of Interface: 2
- Connector Type: BNC (Female, 75)
- Operation Mode: Independent or duplicate outputs
- Data Format: 188 Bytes
- Bit Rate: Up to 100Mbps output (72Mbps after descrambling)

- **IP Input & Output:**

- IP Interface: 1 x 100/1000 Base-T Ethernet(RJ-45)
- MPEG TS Format: 7 x 188 Bytes MPEG TS-over-UDP/RTP
- IP Encapsulation: MPTS or SPTS
- TS Inputs and multiplexing outputs: 4
- Addressing Protocol: Unicast or Multicast UDP, RTP, ARP, IGMP, ICMP

DVB-CI & TS Descrambling

- Numbers of DVB-CI: 2 x CI Slots (in front panel)
- Interface Type: PCMCIA Type II
- CI Standard: Comply with EN 50221
- Rate of Descrambling: 72Mbps per CAM
- Performance: Up to 16 programs simultaneously
- Supported CA Category: DVB SimulCrypt and MultiCrypt

Output Ports

- **HDMI Output:**

- Standards: 1*HDMI 1.3 (Type A receptacle)
- Audio: Compliant with S/PDIF(IEC90658)
- Video Resolution: 1080P60/50, 1080i60/50, 720P60/50, 480P60/i60, 576P50/i50

- **SDI Output:**

- Connector Type: 2 x 3G-SDI (BNC female, 75)
- Standards: SMPTE 259M(SD-SDI), SMPTE 292M(HD-SDI), SMPTE 424M(3G-SDI)
- Operation Mode: Duplicated outputs
- Audio: Embedded Audio
- Video Resolution: 1080P60/50, 1080i60/50, 720P60/50, 576i50

- **Control & Monitoring**

- Interface 1*RJ-45, 10/100 Base-T, for equipment IP Control
Remote Control Web browser and SNMP management
Local Control LCD display and keypad

- **Environment**

- Power Supply AC 100V 240V, 50/60Hz
- Power consumption 30W(Typ.)
- Dimension 482mm x 44.5mm x 400mm
- Operating Temperature 0°C to 45°C (32°F to 113°F)
- Storage Temperature -20 to 80°C (-4°F to 176°F)
- Operating Humidity 90%, non-condensing
- Weight 5KG

Documents / Resources



[DIBSYS IRD1311 HD IRD Decoder](#) [pdf] Owner's Manual

IRD1311 HD IRD Decoder, IRD1311, HD IRD Decoder, IRD Decoder, Decoder

References

- [China Encoder Decoder, Hotel IPTV, IPTV Solution Suppliers, Manufacturers, Factory, Company - Hangzhou HAOXUN Technologies Co.,Ltd](#)

Manuals+.