**Overview**

IRD2CI-VD is built with CI（Common Interface）slot. It supports multiple encryption ways and complies with DVB-S2 standard, compatible with DVB-S at the same time. It adopts powerful processor STI7101，which can generate transparent de-scrambled TS stream for use. It can output 1 channel AV，1 YPBPR，1 channel HDMI. Moreover, with CVBS A/V output port and SPDIF digital fiber output port，it can be widely used in TV Station, Hotel, community re-construction and digital signal transmission.

**Features**

1. Adopts powerful single chip processor STI7101

2. Comply with MPEG-2 MP@HL and MP@ML

3. Fully comply with MPEG-4 H.264/AVC main profile level4.1

4. Fully comply with MPEG-1 Layer I & II & III, Dolby(AC3) AAC

5. Fiber SPDIF Output

6. Available Output Display Format: 1080P/1080i/720p/570p/576i/480p Dual CI（Common Interface）

7. Match CAM card and Support decryption for Irdeto，VIACCESS，NDS VideoGuard,etc.

8. Simultaneously output transparent TS stream after descrambling, CVBS, color shading and digital HDMI

9. Output both scrambled and descrambled TS stream by software setting

10. Output ASI format TS stream

11. High reliability

12. Power cut memory protection function

13. Support VBI function

14. Upgrade by RS232

15. Software upgrade by USB

16. Support Web Server，FTP and TELNET network remote control, send single channel program to internet by TS stream or upgrade software by internet port.

**Technical Specification**

|  |  |  |
| --- | --- | --- |
| **Low Noise Block** | Input Frequency | 950～2150MHz |
| Loop-out Frequency Range | 950～2150MHz |
| Input Level | -65～-30dBm |
| Impedance | 75Ω |
| LNB Power Supply | 13/18V，Imax＝500Ma |
| automatic LNB short-circuit protection |
| Switch Control | 0/22k type, support Universal LNB |
| **Channel Decoding** | Demodulation | QPSK 8PSK |
| DVB-S FEC | 1/2，2/3，3/4，5/6，7/8 |
| DVB-S2 FEC | 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9,9/10 (QPSK) 3/5, 2/3, 3/4, 5/6, 8/9, 9/10(8PSK) |
| Roll-off Factor | 0.35 |
| External convolution | Reed Solomon(204，188，8) |
| Internal convolution | Inter-leaver I=12 |
| Constraint length k=7 |
| DVB-S Symbol Rate | 2.0～45MS/s |
| DVB-S2 Symbol Rate | 10-30 Ms/s (QPSK), |
| 10-31Ms/s(8PSK) |
| **De-Multiplexer** | Comply with ISO/IEC13818-1 Standard | |
| **Video Decoding** | Comply with ISO/IEC13818-2MPEG-2 MP@ML，MPEG-4 AVC，main profile level4.1 standard | |
| Aspect Ratio | 4：3，16：9 |
| Video Format | PAL/NTSC，PAL-B / NTSC-M / PAL-N / PAL-M |
| Resolution | 1080i,720P,,480i/576i,compatible with SD |
| **Audio Decoding** | Comply with ISO/IEC13818-3 standard | |
| Decoding | MPEG-1 Layer I and II, MPEG-2, MPEG-4 AAC |
| Sound Channel | Left, Right, Stereo |
| Volume Control | 32 level |
| **General Interfaces** | Comply with EN50221 standard | |
| CA Supported | Irdeto CA,NDS VideoGuard, Viaccess,Nagravision,Canal+MediaGuard, Cryptowork，TF，CONAX |
| Slot Quantity | 2 |
| **Main Processor and Storage** | Processor | CPU STi7101  ST40 266MHz |
| SFP | DSP 2x ST231 400MHz |
| RAM | 512MB（system）+512M（video demodulation） |
| flash Memory | 128MB |
| **Front Panel** | Display | 4 LED |
| Key | Up, Down, Left, Right, Menu, OK, Back |
| Common Interface | dual channel |
| **Rear Panel** | Loop Out | Inch, F type |
| CVBS Output | 3 RCA(1 left & right channel audio，1 AV) |
| Fiber Output | SPDIF |
| HD Output | HDMI |
| HD Analog Output | YPBPR |
| Rs232 Port | DB-9  female connector |
| ASI Output | BNC, 75Ω |
| Ethernet Output | RJ45 |
| 10-100Mbps |
| USB Output | |
| Network Port | RJ45 |
| **Power** | Input | AC100～240V，50/60Hz |
| Consumption | max 18W |
| **Others** | Environment | 0～40℃ |
| Dimensions | 230mm(W)×483mm(D)×44.5mm(H) |

**Principle Chart**