

# IRD180X

DIBSYS

## Audio Receiver and Decoder

Professional broadcasting-grade multi-channel audio decoder

DVB-C CABLE DVB-S2 DVB-T2 TERRESTRIAL



IRD180X series broadcasting-grade multi-channel audio decoder is an ultra high reliability, professional satellite receiver decoder, which equipped with different tuner DVB-S/S2, DVB-C, DVB-T/ T2, DTMB, and widely used in the satellite, cable and terrestrial TV network.

With dual DVB common slots, IRD180X is working with most of well-known CAS in the market to de-encrypt audio services and decrypts multiple services in a transport stream. With supporting on DRA/AC3/AAC/MPEG standards, IRD180X series audio receiver and decoder supports RF, IP, ASI inputs, 2/4/8 channels audio decoding outputs on both AES/EBU and analog stereos.

### Key Features

- RF/IP/ASI input
- Support AES/EBU/Analog Stereo/ASI/IP output
- Audio decoding: DRA/AC3/EAC3/AAC/MPEG
- 2 independent CAM card can decrypt two programs
- Friendly user interface to facilitate the operation of the menu system and all operations can be completed on the LCD
- B/S based web management
- Support dynamic monitoring of signal input strength and SNR and support signal lock-loose alarm

### Application

- DTV head-end equipment
- DTV interface converter, facilitate the conversion between different interfaces of various devices
- Support VOD in IPTV system
- Broadcast monitoring

## TECHNICAL SPECIFICATIONS

### DVB-S/S2 Tuner input

DVB-S/S2 Tuner Input	1/2*RF input, 1/2*RF loop out 75 Ω
Input frequency	950~2150MHz
Input level	-25~ -65 dbm
Symbol Rate	1 ~ 45msps
LNB power supply	13V, 18V selectable, 22KHz selectable, off
Constellation	QPSK, 8PSK

### DVB-C Tuner input

DVB-C Tuner Input	1/2*RF input, 1/2*RF loop out 75Ω
Input Frequency Range	48~862MHz
Input Level	45~75dbuV
Modulation mode	16/32/64/128/256QAM

### DVB-T/T2 Tuner input

DVB-T/T2 Tuner Input	1/2*RF input, 1/2*RF loop out 75 Ω
Input Frequency	44~1002MHz
Input Level	-20 ~ -100dbm
Modulation mode	DVB-T: QPSK, 16/64 QAM DVB-T2: QPSK, 16/64/256 QAM
Bandwidth	6MHz, 7MHz, 8MHz

### TS over IP

Interface	1/2*RJ-45, 100 or 1000 Base-T
Effective rate	900Mb/s (1000 Based-T)
IP protocol	UDP/RTP, Unicast, Multicast 1/2/4*MPTS over IP

### ASI in/ASI output

Interface	1*BNC input, 75Ω
Interface	2*BNC output, 75Ω

Bitrate ≤200Mb/s

### Analog Audio Output

Interface 2/4/8\*XLR  
Output audio format Left, Right, Dual Mono, Stereo

### Digital audio output

Interface 2/4/8\*AES/EBU

### Audio Decoding

Audio Standard MPEG-1 LayerI/II, MPEG-2 layer II,  
MPEG-2 AAC, MPEG-4 AAC LC,  
2.0 CHANNEL/5.1 CHANNEL AC3/DRA/EAC3

### Control & Monitoring

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

Remote Control  
Local Control

### Environment

Power Supply AC 90V~250V, 50/60Hz  
Power consumption 24W (Power supply without LBN)  
Dimension 450mm×350mm×44mm  
Operating temperature 0 ~ 45℃  
Storage temperature -10 ~ 60℃  
Humidity 10 ~ 90% non-condensed  
Weight 5KG

## Order Information

Model	Input	Output	NMS/Data port	CAM card
<b>IRD1802</b>	1*RF, 1*ASI, 1*MPTS over IP	2*XLR ,2*AES/EBU, 2*ASI	1*NMS, 1*Data(100M)	2*CAM card
<b>IRD1804</b>	2*RF, 1*ASI, 2*MPTS over IP	4*XLR ,4*AES/EBU, 2*ASI	1*NMS, 2*Data(1000M)	2*CAM card
<b>IRD1808</b>	1*ASI, 4*MPTS over IP	8*XLR, 8*AES/EBU, 2*ASI	1*NMS, 2*Data(1000M)	none



**IRD1802**



**IRD1804**

**IRD1808**