

IRD1518SI

8/16/24* Tuner to Internet IP Gateway

UDP/RTP/RTSP/RTMP/HLS/HTTP/SRT

DVB T2 ISDB-T DVB C DVB S2X DVB S2



IRD1518SI is a high-density, modular and FTA/BISS decryption professional TS processor equipped with 8/16/24 tuners, which can be either of DVB-S/S2/S2X or/and DVB-C/T/ISDB-T (**switchable**) types.

It is integrated with tuner demodulation (or IP input) and gateway function, which can demodulate the signal from 8/16/24 tuners into IP package, or directly convert the TS, then output the IP package through different IP address and ports. BISS function is also embedded for tuner input to descramble your tuner input programs.

IRD1518SI enables an all-IP headend architecture, resulting in a more scalable and lower-cost transition to IP-based services. This is an ideal solution for environments where you have a large number of air Channel, and used largely to Medium-Scale IPTV, Hotel, entertainment facilities, or any kinds of Source signals convert to Cable TV broadcast environments in limited budget severely.

Features

- Support 8 tuners (DVB-S/S2/S2X or/and DVB-C/T/ISDB-T) input; 1 U chassis optional for 1/2/3 cards maximum for 8/16/24 tuner input; Each tuner card are working independently with its NMS and 1 GE Data port, IPTV1&IPTV2 Port
- **IP input over UDP/RTP/RTSP/HTTP/HLS/SRT**
- **IP output over UDP/RTP/RTSP/HTTP/HLS/RTMP/SRT**
- Up to 256 PIDs remapping per output channel
- Support PID re-mapping and pass-through
- Support Diseqc function
- Supports network protocol output and can be used for point-to-point transmission
- Support Biss decryption, each tuner support maximum 64 BISS key decryption
- Web-based NMS management

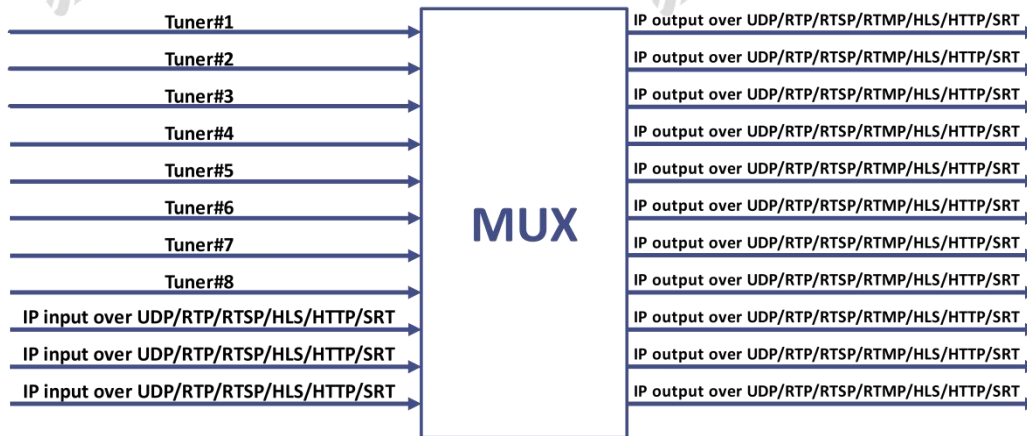
Main Application

- Converting the content of 8/16/24*FTA satellite transponders to IP streaming
- Upgrade all your analog Head-ends to digital TV Solution
- Enterprise, Hotel, campus, hospital, Public Place
- Huge FTA Channels to collect in Limited budget

URL Performance Test Table

URL Performance Test Table		
Input	Output	Extreme bitrate (Mbps)
UDP	UDP	400
	HTTP	200
	HLS	350
	SRT	200
HTTP	UDP	240
HLS	UDP	240
SRT	UDP	120

Inner Principle Chart (Per Card/8 Input)



TECHNICAL SPECIFICATIONS

Input/Output Interfaces

8 Tuner input (DVB-S/S2/S2X or/and DVB-C/T/T2/ISDB-T), optional 16/24tuners
 F-female type Connector
 IP input over UDP/RTP/RTSP/HTTP/HLS/SRT
 IP output over UDP/RTP/RTSP/HTTP/HLS/RTMP/SRT
 100/1000Mself-adaption, unicast/multicast

Tuner Section

DVB-S

Input Frequency 950-2150Mhz
 Symbol rate 0.5~45Mbauds
 FEC Demodulation 1/2, 2/3, 3/4, 5/6, 7/8(DVB-S QPSK)
 Demodulation Mode QPSK

DVB-S2

Input Frequency 950-2150Mhz
 Symbol rate QPSK/8PSK /16APSK :0.5~45 Msps
 32APSK: 0.5~34Msps;
 FEC Demodulation 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
 Demodulation Mode QPSK, 8PSK, 16APSK, 32APSK
 Max input bitrate ≤170 Mbps

DVB-S2X

Input Frequency 950-2150Mhz
 Symbol rate QPSK/8PSK /16APSK :0.5~45 Msps
 8APSK/32APSK: 0.5~40Msps
 FEC Demodulation 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, 23/36, 25/36, 13/18
 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
 Demodulation Mode QPSK, 8PSK, 8APSK, 16APSK, 32APSK
 Max input bitrate ≤170 Mbps
 Signal Strength -65 ~ -25dBm

DVB-T/T2 Mode

Frequency Range 60MHz-890Mhz
 Bandwidth 6Mhz, 7Mhz, 8Mhz

DVB-C Mode

Input Frequency Range 60MHz-890Mhz
 QAM Encoding ITU-TJ.83 Annex A(DVB), Annex B, AnnexC
 Annex A/C Constellation 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
 Annex B Constellation 64/256 QAM
 Bandwidth 6MHz, 7MHz, 8MHz

ISDB-T Mode

Input frequency range 60MHz-890Mhz

System function

Web management: 100M NMS port
 Language Chinese/English
 Ethernet software upgrade

Environment

Dimensions(HxWxD) 482mm×328mm×44mm (WxLxH)
 Weight 3.5Kg
 Temperature 0~45℃(operating); -20~80℃(Storage)
 Power Voltage AC 110V±10%, 50/60Hz Or AC 220V±10%, 50/60Hz
 Power Consumption ≤25W (1card inside)
 ≤50W (2 cards inside)
 ≤75W (3 cards inside)

Ordering Information

IRD1518SI-8 (DVB-S2/S2X)	8 FTA DVB-S/S2/S2X Tuner Input
IRD1518SI-16 (DVB-S2/S2X)	16 FTA DVB-S/S2/S2X Tuner Input
IRD1518SI-24 (DVB-S2/S2X)	24 FTA DVB-S/S2/S2X Tuner Input
IRD1518SI-8	8 FTA DVB-C/T/ISDB-T Tuner Input (switchable)
IRD1518SI-16	16 FTA DVB-C/T/ISDB-T Tuner Input (switchable)
IRD1518SI-24	24 FTA DVB-C/T/ISDB-T Tuner Input (switchable)