

# IRD1518S

## 16/24x FTA Tuner to IP Gateway

DVB-S2 DVB-S2X

DIBVISION | DIBSYS



IRD1518S is a high-density, modular and FTA/BISS decryption professional TS processor equipped with 16/24 independent tuners.

IRD1518S DVB-S/S2/S2X Tuner to IP Gateway is a head-end interface conversion device and Routes Any or All Transport Streams via IP Output Port by SPTS/MPTS channels, and support optional two different tuners input in one device.

IRD1518S 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 16/24 FTA DVB- S/S2/S2X input, 1 ASI input, 1USB input
- Support BISS descrambling
- Support DisEqc function
- 16/24 MPTS+2 MPTS(ASI and USB port) or 1024 SPTS output (MPTS and SPTS output switchable)
- 2 GE output (IP address and port number of GE1 and GE2 are different), up to 850Mbps---SPTS
- 2 independent GE output port, GE1 (512 SPTS) + GE2 (512 SPTS) --- ( total 18/26 MPTS )
- Support PID filtering, re-mapping (Only for SPTS output)
- Support "Null PKT Filter" function (Only for MPTS output)
- Support Web operation
- Easy-to-Use System Management via Web-GUI
- Breakthrough price and Quality
- For professional 24/7 Non stop operation
- High density, compact 1-RU platform saves rack space and reduces operating cost

### Main Application

- Converting the content of 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

## TECHNICAL SPECIFICATIONS

### Input Interfaces

16/24 FTA Tuners DVB-S/S2/S2X In,  
F-female type Connector  
1 DVB-ASI, 1 USB  
75  $\Omega$  , BNC type, 188Bytes,  $\cong$  150Mbps  
ASI bitrate 200Mbit/s  
Output Level 800mVpp Nominal

#### DVB-S

Input Frequency 950-2150Mhz  
Symbol rate 0.5~45Mbauds  
Signal Strength - 65 ~ -25dBm  
FEC Demodulation 1/2, 2/3, 3/4, 5/6, 7/8(DVB-S QPSK)  
Demodulation Mode QPSK  
Max input bitrate  $\leq$ 125 Mbps

#### 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, 9/10  
Demodulation Mode QPSK, 8PSK, 16APSK, 32APSK  
Max input bitrate  $\leq$ 125 Mbps

#### DVB-S2X

Input Frequency 950-2150Mhz  
Symbol rate QPSK/8PSK /16APSK :0.5~45 Msps  
8APSK: 0.5~40Msps  
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  
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, 9/10, 2/3-L, 32/45, 11/15, 7/9  
Demodulation Mode QPSK, 8PSK, 8APSK, 16APSK, 32APSK  
Max input bitrate  $\leq$ 125 Mbps

### MPEG-TS Processing

IP mode MPTS, SPTS  
**Note:**When Switch success, Please reboot device by hand  
Maximum PID Remapping 180 input per channel  
PID remapping by automatically or manually)  
PSI/SI(Valid in SPTS) Program Name, Program Number, Service Type,  
Service Provider, PMT/PCR/Video/Audio PID  
Note:In MPTS mode.Disable Configuration

### Stream output

Dual GbE interfaces, RJ45 Port, Auto-negotiation  
2 Separate DVB-ASI out  
GbE1, GbE2,  $\cong$  850Mbps Per Port  
MPEG-TS Over UDP and RTP/RTSP  
7x188 Bytes per TS packet  
Multicast/Unicast

### MPTS mode

Filter Null Packet  
Each IP out Configurable mirroring per Tuner  
Numbers of MPTS:18/26 MPTS IP output  
(for Tuner/ASI/USB pass-through)  
over UDP and RTP/RTSP protocol through GE1  
and GE2 port, Unicast and Multicast

### SPTS Mode

1024 SPTS IP output over UDP and RTP/RTSP  
protocol through GE1 and GE2 port  
(IP address and port number of GE1 and GE2  
are different) , Unicast and Multicast  
Numbers of SPTS: Up to 1024  
BISS-1 and BISS-E (Up to 850Mbps)  
descramble individual program

### BISS descrambling

### System function

Web Network management  
English language  
Ethernet software upgrade  
Save/Restore/Facture Set/Backup/Load Setting

### Environment

Dimensions(HxWxD) 482mm×230mm×44mm  
Weight 2.5Kg  
Temperature 0~45℃(operating); -20~80℃(Storage)  
Power Voltage 100~240VAC, 50/60Hz  
Power Consumption 20W

## Related Products

| Model       | Tuner Model  |          |                   |      | Tuner Number | Tuner LOOP | ASI IN | ASI OUT | USB | LCD |
|-------------|--------------|----------|-------------------|------|--------------|------------|--------|---------|-----|-----|
|             | DVB-S/S2/S2X | DVB-S/S2 | DVB-C/T/T2/ISDB-T | ATSC |              |            |        |         |     |     |
| IRD1518Plus | √            | √        | √                 | √    | 16           | √          | 2      | ×       | ×   | ×   |
| IRD1518S    | √            | ×        | ×                 | ×    | 16/24        | ×          | 1      | 2       | 1   | ×   |
| IRD1518Pro  | √            | ×        | √                 | ×    | 16/24        | √          | 2      | 2       | 1   | √   |