

IRD1518Pro

DIBVISION | DIBSYS

16/24* tuner to IP Gateway

DVB-C DVB-S2 DVB-S2X
DVB-T2 ISDB-T



IRD1518Pro is a head-end interface-conversion professional TS processor equipped with 16/24 independent tuners. It is a head-end interface conversion device and Routes Any or All Transport Streams via IP Output Port by 24 MPTS output(24 FTA tuner inputs)+3 MPTS output(2 ASI inputs and 1 USB input) or 1024 SPTS output over UDP and RTP/RTSP protocol.

IRD1518Pro 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.

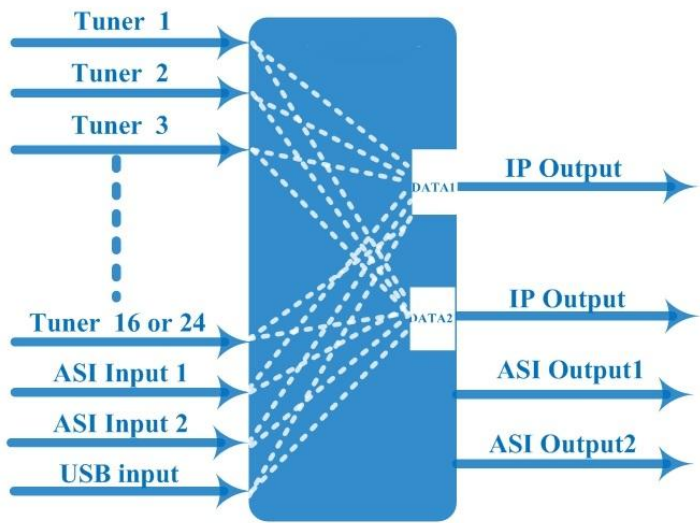
Features

- Support 24 or 16 FTA DVB- S/S2/S2X or DVB-C/T/T2/ISDB-T Multi-Mode Switchable tuner inputs, 2 ASI inputs, 1USB input(TS file Playing, FTA 32, USB 2.0)
- 24 MPTS output+3 MPTS output(2 ASI inputs and 1 USB port) or 1024 SPTS output (MPTS and SPTS output switchable in Web GUI)
- 2 DATA output ports (IP address and port number of DATA1 and DATA2 are different), up to 900Mbps---SPTS
- 2 independent DATA output ports, DATA1 (512 SPTS output) + DATA2 (512 SPTS output)
- MPTS is pass-through mode, the first 12 tuner-input signals will be outputted from DATA 1, the rest 12 tuner-input signals will be outputted from DATA 2; The 2 ASI-input signals and 1 USB-input signal can be chosen to output via DATA 1 or DATA 2
- ASI out is useless in SPTS out mode, and ASI out can be the bypass output of one of the 27 input signals(24 tuner inputs, 2 ASI inputs and 1 USB port) in MPTS out mode, ASI out 1 and ASI out 2 are mirror ports to output the same one TS
- BISS descrambling for tuner inputs
- Preserved cascading of two sets of ASI interface inputs and outputs
- LCD screen facilitates convenient operation and setting of local IP address
- Reduced cost and complexity of management
- Support Tuner RF In/Loop out interface for cascading with Tuner; Reduced the number of TUNER CABLE line connections and level attenuation
- DisEqc function
- PID filtering, re-mapping (Only for SPTS output)
- "Null PKT Filter" function (Only for MPTS output)
- Web operation, reboot in Web GUI after firmware upgrading

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

Principle Chart



TECHNICAL SPECIFICATIONS

Inputs

Number of Tuners	16/24 FTA Tuners In
ASI	2*ASI
USB	1*USB
Connector	F female, 75 Ω

Satellite

DVB-S tuner

Input Frequency	950-2150Mhz
Symbol rate	0.5~45Mbauds(QPSK)
Signal Strength	- 65~-25dBm
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Constellation	QPSK
Max input bitrate	≤125 Mbps

DVB-S2 tuner

Input Frequency	950-2150Mhz
Symbol rate	QPSK/8PSK /16APSK: 0.5~45 Msps 32APSK: 0.5~34Msps;
FEC	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
Constellation	QPSK, 8PSK, 16APSK, 32APSK
Max input bitrate	≤125 Mbps

DVB-S2X Tuner

Input Frequency	950-2150Mhz
Symbol rate	QPSK/8PSK /16APSK: 0.5~45 Msps 8APSK: 0.5~40Msps 32APSK:0.5~34Msps
FEC	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 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
Constellation	QPSK, 8PSK, 8APSK, 16APSK, 32APSK
Max input bitrate	≤125 Mbps

Multi-mode tuners switchable

DVB-T/T2 Mode

Frequency Range	50~960Mhz
Bandwidth	6Mhz, 7Mhz, 8Mhz

DVB-C Mode

Frequency Range	50 ~ 960MHz
QAM Encoding	ITU-T J.83 Annex A(DVB), Annex B,Annex C
Constellation	16/32/64/128/256 QAM

ISDB-T Mode

Input frequency range	50 ~ 960MHz
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BISS Descrambling

Mode 1, Mode E

Output

SPTS	1024 SPTS IP output over UDP and RTP/RTSP protocol through DATA1 and DATA2 port , (IP address and port number of DATA1 and DATA2 are different) , Unicast and Multicast
MPTS	27 MPTS IP output (for Tuner/ASI/USB bypass) over UDP and RTP/RTSP protocol through DATA1 and DATA2 port, Unicast and Multicast
ASI	2 ASI outputs(MPTS out mode only, mirror ports to output the same one TS)

System function

Management Port	Web-GUI, RJ45,100M Chinese/English language Ethernet software upgrade
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Environment

Dimensions (W*L*H)	482mm×270mm×44mm (W×L×H)
Temperature	0~45℃(operation), -20~80℃(storage)
Power Voltage	100~240VAC, 50/60Hz