

IRD1218

8* RF FTA Tuners IRD



IRD1218 provide a best-of-class gateway platform for Cable and IPTV operators. It is a high density digital TV Head end for contribution of digital TV via IP Networks and end to end IPTV solutions, like multiscreen OTT/IPTV transcoding or edge modulation or Transmission. The platform provides the following processing functions: 8 RF Free To Air Demodulation, DVB-IP Gateway for DVB-S/S2, DVB-C, DVB-T2, ATSC, ISDB-T, BISS Descrambling, Remultiplexing, PSI/SI-Processing, user-defined PID passthrough, Distribute Audios and Videos to IP either 240 SPTS for IPTV streaming or 14 MPTS IP and 2 separate ASI for Digital TV platform.

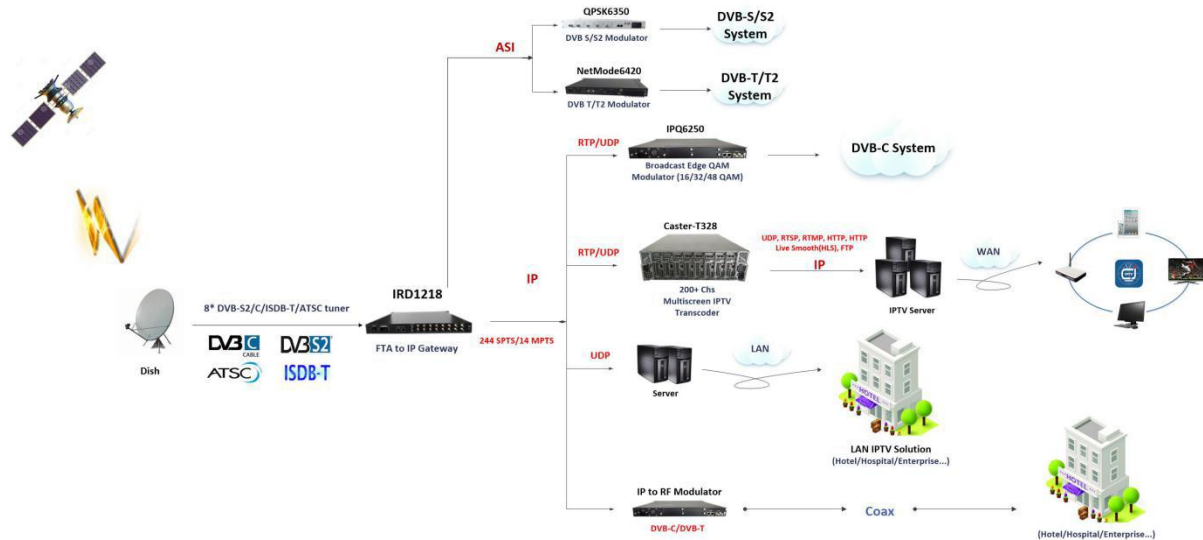
IRD1218 working performance and MTBF(Mean Time Between Failure) is Comparable to famous foreign brands, which both hardware and software optimization and tuner material is according to the most rigorous testing requirements of production. At present, hundreds of overseas operators, customers and large partners recommend DIBSYS receivers and world famous brand equipment to operate in IPTV and Cable TV systems for a long time. In order to improve the product function and help customers to meet the fully applicable needs of the products, DIBSYS will acknowledge product usage and recommendations to all customers from time to time.

Features

- 8 *FTA Tuners Input, Supports variety of input options DVB-T2 /S2/C/ATSC/ISDB-T per 1RU chassis
- Lower operational costs thanks to highest bandwidth efficiency and lowest IP encapsulation overhead
- High density, high quality, high performance, high flexibility
- 5 years Warranty
- Reboot in Web-GUI
- IP Mode: SPTS and MPTS
- SPTS mode:Up to 244 streams-over-IP; MPTS mode:14 MPTS IP and 2 separate DVB-ASI
- Up to 2 separate ASI out after multiplexed
- Processing for SPTS/MPTS multiplexing
- Select three output modes: Tuner Passthrough; Mux without Null-pkt; Mux with Null-Pkt
- **Option** BISS-1 and BISS-E decryption
- MPEG-2 TS over UDP, RTP IP out
- PID filter, Re-Map, Passthrough with User-Defined PID Value and any Index of In/Out TS
- EPG EIT Table passthrough
- Flexible configuration Service ID, Program Name
- PAT, CAT, SDT, NIT, TDT, TOT PSI/SI generation automatic
- Received signal strength(dBuv), C/N(dB) real time monitoring
- Low power consumption and high reliability with MTBF(Mean Time Between Failure) \geq 87600 Hours
- Support Get Browser UTC Time and Selectable Time Zone
- Management via WEB and local front panel
- Easy-to-Use System Management

Main Application

- Digital TV via IP networks
- Convert satellite, Cable BISS/FTA channels into next equipment via IP and DVB-ASI port
- Corporate and Government networks
- Deliver FTA channels to transcoding of IPTV solution



TECHNICAL SPECIFICATIONS

Tuner input

Number of RF ports Connector	8 Ports RF inputs /Loop Out F-female, 75 ohm
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DVB-S/S2 Mode

Input Frequency	950-2150Mhz
Symbol rate	2~45Mbauds (DVB-S QPSK) 1~45Mbauds (DVB-S2 QPSK) 2~30Mbauds (DVB-S2 8PSK)
Signal Strength	- 65 ~ -25dBm
Convolution encoding Rates	DVB-S QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 8/9, 8/10 DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
Roll Off	0.35 for QPSK; 0.35, 0.25, 0.2 for 8psk
Demodulation Mode	QPSK, 8PSK (Only dvb-s2)
LNB Polarity Selection	horizontal, Vertical
LNB Band Selection Tone	0/22KHz selectable
Spectrum Inverse	Auto, On, Off

DVB-C Mode

Input Frequency Range	30 ~ 1000MHz
Input Level	51~75dBμV
Symbol Rate	1~7Mbaud
QAM Encoding	ITU-T J.83 Annex A(DVB), Annex B, Annex C
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Bandwidth	6MHz, 7MHz, 8MHz

ISDB-T Mode

Input frequency range	30 ~ 900MHz
Bandwidth	6MHz
Constellation	DQPSK, QPSK, 16QAM, 64QAM
Interleave	0, 4, 8, 16
Guard Interval	1/32, 1/16, 1/8, 1/4
Transmission Mode	2K, 4K, 8K (FFT)
FEC (Code Rate)	1/2, 2/3, 3/4, 5/6, 7/8

ATSC Mode

	Compliant with ATSC A/53 standard
Input frequency range	30 ~ 900MHz
Bandwidth	6MHz
Constellation	8VSB

Streams Output

BISS descrambling	BISS-1 and BISS-E
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DVB-ASI

	2x independent ASI, BNC, 75Ω
	Comply to EN50083-9
	188 bytes per packet
	Max.Bitrate ≤100Mbps

MPEG-2 OVER IP

	1 Port 100/1000M base-T, Full Duplex
	Max.Bitrate ≤800Mbps
	UDP/RTP, Multicast/Unicast
	Flexible switching either MPTS or SPTS Mode
	Max.Streams16 MPTS(DVB), 244 SPTS(IPTV)
	7x188 bytes per UDP packet

Multiplexing

PSI/SI table	PAT, PMT, NIT, TOT, TDT, BAT enable/disable
Input/Output Charset	LATIN, GB2312, UTF-8
Max.Programs	Up to 512 programs to multiplex 64 service id per one MPTS out
Editable information	PAT/SDT/CAT/NIT/TOT/TDT Interval(ms) Service ID; Program number

Management

	100M Base-T Ethernet, RJ45
	Web Browner IE 8.0 or above
6 Keys	Up, Down, Left, Right, Enter, Esc 2 lines 20char LCD Status, Alarms LED
Time Zone	UTC+13:00 - -13:00 Software-Reboot

Environment

Rated Voltage	AC 85-260V 50/60Hz
Rated power	35W
Operating temperature	-10 ~ 50°C
Storage temperature	-10 ~ 75°C
Dimensions	460mm (L) *483mm (W) *44mm (H)
Weight	5.7Kg

Ordering Information

Product category	Product Model	Detail Description	Application
Related Products	PREMIUM 8* DVB-S2 FTA IRD IRD1218Plus	8* DVB-C or FTA/BISS DVB-S2 inputs (QPSK/8PSK/ 16APSK / 32APSK demodulation); 14MPTS/240+SPTS/2ASI out; MPEG-TS over UDP/RTP; Multiplexer; 5 years Warranty	-Large and Medium Cable TV operator -IPTV/OTT headend -Content providers -DTH -Carrier-grade
	PREMIUM 8* DVB-S2 CI IRD IRD1380	8*DVB-C/S2/T2/ATSC/ISDBT/8 CI input. 9*MPTS/128*SPTS/ 9*ASI out; MPEG-TS over UDP/RTP; Multiplexer; 5 Years Warranty	
	8ASI/450IP ->120IP Multiplexer DCM701	8ASI/450 IP inputs, Multiplex to 120 SPTS or MPTS IP out, MPEG-TS over UDP/RTP out	
Companion Products	Professional IP QAM modulator IPQ6250	16 QAM no-adjacent/Two GbE IP per Module, 3 Modules/48QAM per 1RU, Annex A/B/C, Multiplexer/ Scrambling; 5 Years Warranty	-Cable TV operator -Distribute video to QAM Network
	200Channel IPTV Transcoder Caster-T328	25SD(or 12HD or 5FullHD) Chs per Moduel, 8 Modules per 3RU, H.264(Upgrade to H.265 by license), RTMP/HLS/UDP/ HTTP/RTSP; Across/upscale/downscale convert 3 Years Warranty	-IPTV -Cable TV operator -Content Provider -Video to Ethernet
	H.264/H.265 IPTV Transcoder Anystream428	2*GbE IP input/output, 25*SD or 12*HD or 5*FullHD transcoder per blade, Up to 8 hot plug blades, H.264/H.265 UDP/RTSP/HTTP/HLS/RTMP; 5 Years Warranty	-Cable TV/DTH -IPTV/OTT -Web/Internet TV -Ultra-low bitrate at Superior video quality
	120Channel H.264 OTT Transcoder Matrix-IV	30SD (or 15HD or 6FullHD) per module. Up to 4 modules 120Channels, H.264 encoding, 2RU chassis, UDP/RTSP/HTTP/HLS/ RTMP; 5 Years Warranty	