

IRD1212

12* FTA Tuner to IP Gateway



IRD1212 is a high-density, modular and FTA professional TS processor equipped with 12 independent tuners, which can be either of DVB-S2/S, ATSC types. It provides a best-of-class gateway platform for Cable and IPTV operators.

IRD1212 DVB-S/S2 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 simultaneously. It is integrated with tuner demodulation (or ASI input) and gateway function, which can demodulate the signal from 12 tuners into IP package, or directly convert the TS from DVB-ASI, then output the IP package through different IP address and ports.

IRD1212 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.

Used in some of the most famous ballparks in the world, this is an ideal solution for environments where you have a large number of displays, such as stadiums, entertainment facilities, or broadcast environment. This DVB to IP Gateway is designed especially for high channel density environments where Rapid deployment, Easy management and compatibility are critical.

Features

- 12*FTA Tuners Input, Supports variety of input options DVB-S/S2 /ATSC
- Support DisEqc function
- Each tuner can process all the streams within each of the tuned transponders, and unit can encapsulate 256 streams of SPTS and 4 streams of MPTS at the same time
- IP Output: IP-UDP, RTP
- SPTS Mode enable One MPEG-TS to Distribute Two Separate Multicast streams Output In GbE1, GbE2 Ports
- MPTS Mode enable One MPEG-TS to map One Multicast streams outputs In either GbE1 Port
- SPTS Mode allow PID filtering, re-mapping
- Breakthrough price and Quality
- For professional 24/7 Non stop operation
- High density, compact 1-RU platform saves rack space and reduces operating cost
- Easy-to-Use System Management

Main Application

- Converting the content of 12*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

Number	12 FTA Tuners In/Loop Out
Tuner	Selectable DVB-S/S2, ATSC
F-female type Connector	
4 Separate DVB-ASI	
75 Ω , BNC type, 188Bytes, \leq 150Mbps	
ASI bitrate	270Mbit/s \pm 100ppm
Output Level	800mVpp Nominal

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
FEC Demodulation	1/2, 2/3, 3/4, 5/6, 7/8(DVB-S QPSK) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 (dvb-s2 QPSK/8PSK)
Roll Off	0.20; 0.25; 0.35(Only DVB-S)
Demodulation Mode	QPSK, 8PSK(Only DVB-S2)
LNB Polarity Selection Vol	0, 13V, 18V Selectable
LNB Band Selection Tone	0/22Khz Selectable
Input Impedance	75 Ω
FEC (Code Rate)	1/2, 2/3, 3/4, 5/6, 7/8

ATSC Mode

Frequency range	50 ~ 860 MHz
Key reference specification	ATSC A/53
Input level	-34 to +40 dBmV
Constellation	8-VSB
Bandwidth	6Mhz

MPEG-TS Processing

IP mode	4xMPTS, 256xSPTS
Maximum PID Remapping	180 input per channel
	PID remapping by automatically or manually)

Stream output

	Dual GbE interfaces, RJ45 Port, Auto-negotiation
	GbE1, \leq 800Mbps Per Port
	MPEG-TS Over UDP and RTP
	7x188 Bytes per TS packet
	Multicast/Unicast

IP/ASI OUTPUT

	Filter Null Packet
multiplexing	ASI/MPTS/SPTS
Input/Output Charset	LATIN, GB2312, UTF-8
IP output channel	on/off
SPTS output limit selectable	2.3M, 2.5M, 2.9, 3.3M, 3.8M, 4.6M, 5.7M, 7.6M, 11.5M, 23M
ASI output	support 2ASI output Mirroring MPTS

System function

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

Environment

Dimensions(HxWxD)	482mm×410mm×44mm
Weight	3.8Kg
Temperature	0~45℃(operating); -20~80℃(Storage)
Power Voltage	100 to 120/200 to 240V AC \pm 10%; 50/60Hz
Power Consumption	25W

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 demoduation); 14MPTS/240+SPTS/2ASI out; MPEG-TS over UDP/RTP; Multiplexer; 5 years Warranty	-Large and Medium Cable TV operator
	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	-IPTV/OTT headend
	8ASI/450IP -> 120IP Multiplexer DCM701	8ASI/450 IP inputs, Multiplex to 120 SPTS or MPTS IP out, MPEG-TS over UDP/RTP out	-Content providers -DTH -Carrier-grade
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
	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	-Web/Internet TV -Ultra-low bitrate at Superior video quality