

IRD1380

8-Channel CI IRD/Processor

DIBSYS



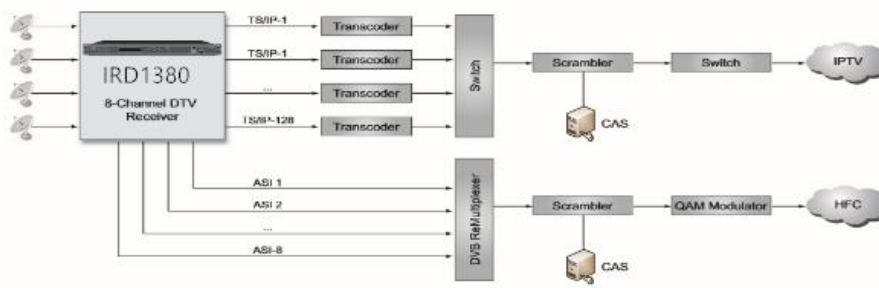
IRD1380 is a high-density, modular and CI decryption professional TS processor equipped with 8 independent tuners, which can be either of **DVB-T/T2, DVB-S2X/S2/S, ISDB-T, DVB-C, DTMB and ATSC types**. It supports a wide range of application by combining 8 tuners processing capability with industry standard outputs including ASI and TS/IP.

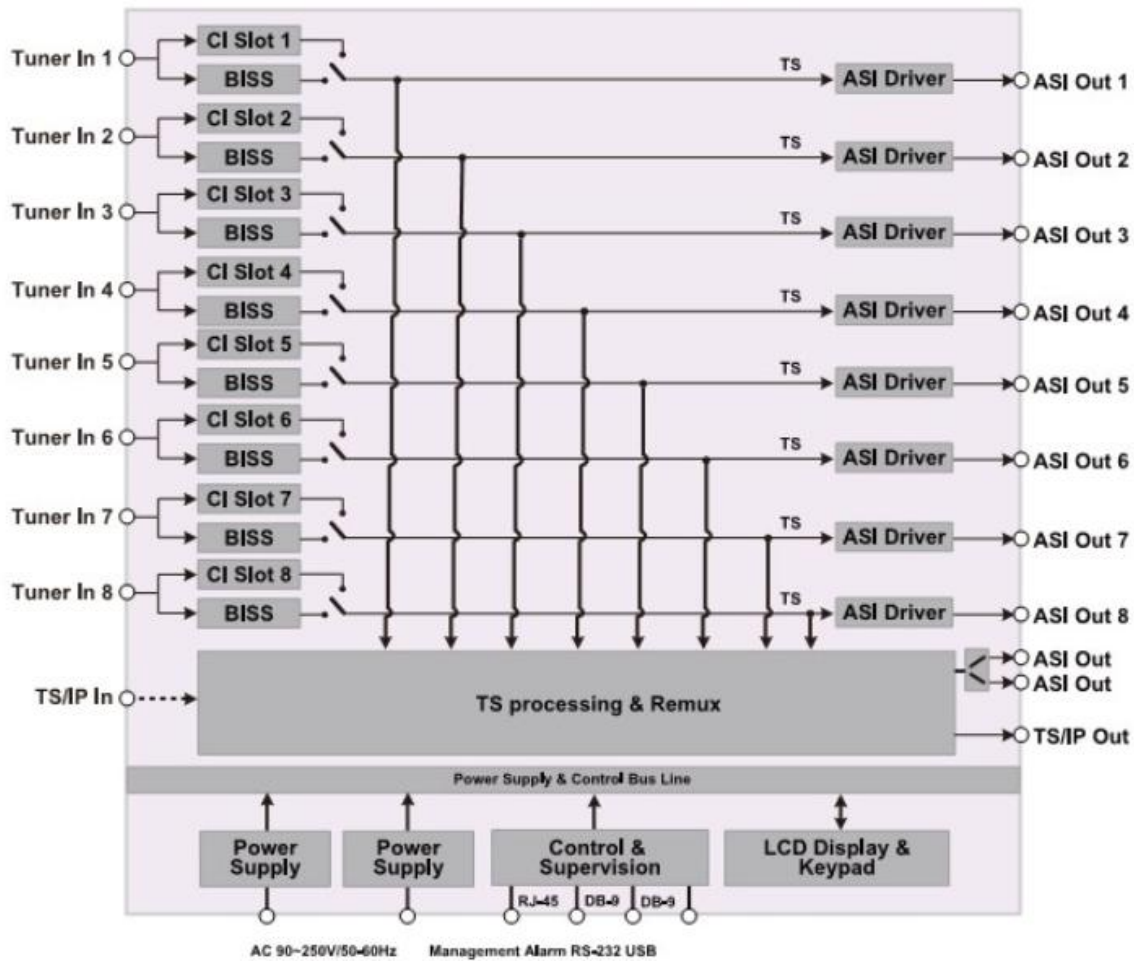
IRD1380 has 8 DVB common interface slots capable of working with most of well-known CAS in the market to de-crypt multiple pay TV services. IRD1380 provides operators an ideal solution for multi receiving, re-multiplexing, descrambling and TS over IP operations, the compact 8 tuners and the powerful 8 CI decryption design make IRD1380 one of the most competitive product in the head-end market.

Features

- 8xTuners Input, Supports variety of input options DVB-T2/T/S2X/S2/S/C/DTMB/ATSC/ISDB-T
- Supports DVB-S2 Input Stream Identifier and DVB-T2 Multi PLP and SFN MIP pass through
- Built-in TS re-multiplexer receives from CI Slot1 to CI Slot8 and TS/IP inputs
- 8xDVB-CI Slots, multi-program decryption, BISS-1 and BISS-E decryption
- 8xASI output the transport stream from CI Slot1 to CI Slot8 or BISS decryption
- Remote Control and Supervision by SNMP v2, HTTP WEB
- Supported CAM card brands: PowerVU, POWERVU +, VIACCESS 2.4, 3.0, 4.0version, IRDETO 2, MEDIACipher, Tongfang, VideoGuard, ABV, Topreal, Conax, Cryptoguard, NAGRAVISION
- On Site software update through IP or USB
- RSSI, received signal strength, Eb/N0, C/N and BER monitoring
- Redundency power supply

Application





TECHNICAL SPECIFICATIONS

DVB-S/S2 Tuner Input

DVB-S/S2 Tuner Input (ISI 16APSK/32APSK/64APSK S2X)
 Connector Type 8*F type female 75Ω for Input
 Input Frequency Range 950 ~ 2150MHz
 Input Level -65 ~ -25dBm

Symbol Rate

DVB-S2X/S2 QPSK 8PSK 1 ~ 60MSps
 16APSK 1 ~ 58MSps
 32APSK 1 ~ 55MSps
 64APSK 1 ~ 34MSps
 DVB-S QPSK 1~54MSps

Roll-off Factor

DVB-S QPSK 0.35
 DVB-S2 8PSK 0.35, 0.25, 0.2
 DVB-S2X 0.35, 0.25, 0.2, 0.15, 0.1, 0.05

FEC Code Rate

DVB-S QPSK 1/2, 2/3, 3/4, 5/6, 7/8
 DVB-S2 QPSK 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
 DVB-S2 8PSK 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
 DVB-S2X 64800 bits FECFRAME VCM and ACM

LNB Polarity Selection

LNB Band Selection Voltage 0, 13V, 18V selectable
 Satellite Selection Tone 0/22KHz selectable
 PLS Command DiSEqC 1.0
 ISI ID 0 ~ 262141
 1 ~ 255

DVB-C Tuner Input

Connector Type 8*F type female 75Ω for Input
 Input Frequency Range 42 ~ 1002MHz
 Input Level -60 ~ -20dBuV
 Symbol Rate 1.8 ~ 7.2 MBaud
 (ITU J.83 Annex A, B, C)
 Constellation 16QAM, 32QAM, 64QAM
 128QAM, 256QAM
 Bandwidth 6MHz, 7MHz, 8MHz
 Input Return Loss 7dB (typ.)

DVB-T/T2 Tuner Input

Connector Type 8*F type female 75Ω for Input
 Input Frequency Range 104 ~ 862MHz (VHF/UHF)
 Input Level -20 ~ -70dBm
 Constellation DVB-T: QPSK, 16QAM, 64QAM
 DVB-T2 QPSK, 16QAM, 64QAM, 256QAM
 Bandwidth 6MHz, 7MHz, 8MHz
 FFT Mode DVB-T: 2K, 8K
 DVB-T2 1K, 2K, 4K, 8K, 16K, 32K
 DVB-T2 1/4, 5/32, 1/8, 5/64, 1/16
 1/32, 1/64, 1/128
 FEC Code Rate DVB-T: 1/2, 2/3, 3/4, 5/6, 7/8
 DVB-T2 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
 Input Return Loss 7dB (typ.)

DTMB Tuner Input

Connector Type 8*F type female 75Ω for Input
 Input Frequency Range 44 ~ 1002MHz
 Input Level -60 ~ -20dBm
 Bandwidth 6MHz, 7MHz, 8MHz
 Constellation 4QAM-NR, 4QAM, 16QAM, 32QAM, 64QAM
 Guard Interval PN420, PN595, PN945
 Roll-off Factor 0.05
 Interleaving Depth 240, 720
 FEC Code Rate 0.4, 0.6, 0.8

ATSC Tuner Input

Connector Type	8*F type female 75Ω for Input
Input Frequency Range	54 ~ 864MHz
Input Level	-75 ~ -7dBm (ATSC 8VSB)
Symbol Rate	10.762MBaud
Constellation	8VSB
Roll-off Factor	0.115
Bandwidth	6MHZ

ISDB-T Tuner Input

Input frequency	60MHZ to 860 MHZ
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TS Processing

TS Input Management	Demux and Remux among and CI Inputs
TS Output Management	Demux and Remux for ASI output
Service and PID Management	Service and PID level for Remux, filtering and remapping
PSI/SI	PSI/SI table regeneration, NIT and SDT edition, LCN Edition and Re-generation
Descrambler DVB Common	Scrambling Algorithm (CSA)
BISS Mode	BISS-1, BISS-E
Common Interface	8 x PCMCIA slots, compatible with Conax, Cryptoworks, Irdeto, NDS, Mediaguard, SECA, Viaccess and more

ASI Output

Connector Type	10 independent BNC female, 75Ω
Standard	DVB-ASI, EN50083-9
Output Bit Rate	≤ 200Mb/s
TS Processing	8xASI out pass through the TS from CI 1 to CI8, 2xASI Out from Remux

TS over IP

Connector Type	1×RJ-45, 100/1000 Base-T
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2 modes

Full duplex mode	Input and output total bit rate: 300M
64 channels IPTV/DVB mode	Bit rate: 200-350M
Multicast Control Protocol	ICMP, ARP, IGMPv2, IGMPv3

Alarm

Connector Type	1×D-sub 9 male
	Switching Condition User Defined

Control & Monitoring

Connector Type	1×RJ-45, 10/100 Base-T, for equipment IP Control
Remote Control	SNMP, HTTP (Web Interface)
Local Control	LCD display and 6-key keypad
Serial Port	1×RS-232 D-sub female, for debug use only
Equipment Upgrade	Embedded FTP loader and Telnet

Environment

Power Supply	AC 90V ~ 250V, 50/60Hz
Power Consumption	30W (exclusive of LNB power)
Operating temperature	0 ~ 45℃
Storage temperature	-10 ~ 60℃
Operating Humidity	10 ~ 90%, non-condensed
Dimension	430mm x 255mm x 44mm
Weight	3.5kg

Certification

EMC	EN 55024:1998+A1: 2001+A2:2003, EN 55022:2006+A1:2007, EN 61000-3-2:2006 EN 61000-3-3:2008
FCC	Part 15 Class B
LVD	EN 60950-1:2006 + A11:2009