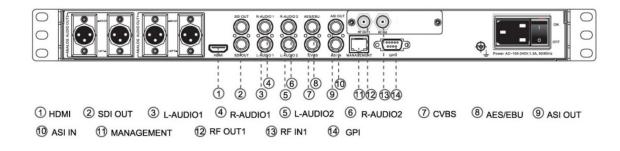


IRD5001/AW

DVB-S/S2 HD/SD INTEGRATED RECEIVER DECODER

Single channel IRD - Cost-effective solution





ABE "IRD5001/AW" is an Integrated Receiver Decoder that demodulates digital QPSK and 8PSK signals according to DVB-S and DVB-S2 specifications (for Broadcasting applications) in the "L band" (the standard IF output of an LNB – Low Noise Block downconverter) and decode the selected video / audio program according to MPEG-2 (4:2:0 – MP@ML) and MPEG-4 (H.264 HD/SD) standard giving digital (SDI with embedded audio) and analog outputs. It also support Conditional Access.

ABE IRD5001/AW has also a Transport Stream output (Multi-Program-Transport Stream) in ASI format and can also decode an ASI Transport Stream. As option, it can also have IP (Ethernet – GBE - Video over IP) input and output.

Features

- DVB-S and DVB-S2 compliant for Broadcasting applications
- MPEG-4 AVC H.264 SD and HD decoding
- MPEG-2 (MP@ML) SD decoding
- N°2 CAM Slots for Conditional Access
- HD/SD-SDI output interface with embedded audio
- AES/EBU digital audio output
- HDMI output interface
- Analog Video and audio outputs
- Transport Stream ASI Output and Input
- Optional GBE (Transport Stream Over IP) Ethernet input/output interface
- Data rate up to 72 Mbps
- Local control with front panel LCD and keypad
- Remote control LAN interface (RJ45)

	Tackwinelesseification
RECEIVER SPECIFICATIONS	Technical specification
Input level:	Approx25dBm to -65dBm
Input impedance and connector:	"F" Female 75 ohm
Input frequency:	950 to 2150MHz with steps of 100KHz
Supported modulations:	QPSK and 8PSK according to DVB-S and DVB-S2 standard for Broadcast applications
Symbol rate:	1 to 45 M Symbol/ sec (according to modulation scheme)
LNB power supply:	0/ 13/ 18V polarity switching, 22KHz on/ off
LNB current:	350mA max
VIDEO DECODER and OUTPUT	35UMA Max
Data rate:	Up to 15Mbps
Supported compressions:	MPEG-2 (4:2:0 – MP@ML); MPEG-4 AVC H.264
Supported resolutions:	480i, 480p, 576i, 720p, 1080i
Standard	PAL, SECAM, NTSC
Digital Video outputs:	2x HD/ SD-SDI; 1x HDMI
Analog video output (Standard Definition only) - level / impedance / connector:	1Vpp / 75 ohms / "BNC" Female
AUDIO DECODER and OUTPUT	
Supported decoding:	MPEG-1 layer I, II
Output format:	Analog and Digital (AES/EBU; embedded in SDI)
Output connector:	XLR and BNC
Audio mode:	Dual Channel; Stereo, Dual mono and Mono
DECRIPTION - CONDITIONAL ACCESS	
Interface	N°2 indipendent CI Slots (EN50221)
CA Methods:	Multicrypt, Simulcrypt, Hot Plug
CAS	Conax, Irdeto, Viacess, Nagravision, CTI, DV-Crypt, Novel SuperTV, Verimatrix
BISS 1/ E	Supported
ASI INPUT and OUTPUT	
Data rate:	270Mbit/s (max Transport Stream bit rate: 72Mbit/s)
Data packet format:	188/ 204 Byte per T.S. (Input); 188Byte per T.S. (Output)
Connector type:	"BNC" Female 75 ohm
GBE (T.S. over IP) INPUT and OUTPUT - OPT	TION
Interface:	10/100/1000 Mbps Base-T - RJ45 connector
IP Encapsulation:	MPEG Transport Stream over IP (as per Pro-MPEG Code of Practice #3 release 2)
Broadcasting type:	Unicast or Multicast; UDP/ RTP; unicast and multicast
W.O	
I/ O processing:	Up to 12 sockets, max at 72 Mbps per socket
I/ O processing: Forward Error Correction	
Forward Error Correction	Up to 12 sockets, max at 72 Mbps per socket
Forward Error Correction GENERAL SPECIFICATIONS	Up to 12 sockets, max at 72 Mbps per socket
	Up to 12 sockets, max at 72 Mbps per socket Supported. ProMPEG

