

DVB-S/S2 (SD) INTEGRATED RECEIVER DECODER

Single channel IRD - Cost-effective solution



ABE "IRD1001/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) analog outputs. It also support Conditional Access.

ABE IRD1001/AW has also a Transport Stream output (Multi-Program-Transport Stream) in ASI format and can also decode an ASI Transport Stream.

Features:

- DVB-S and DVB-S2 compliant for Broadcasting applications
- MPEG-2 (MP@ML) decoding
- Support PAL, NTSC and SECAM
- N°2 CAM Slots for Conditional Access
- Compatible with BISS decryption
- Analog Video (YPbPr and CVBS) outputs
- Analog Audio balance (XLR) outputs
- N.2 Transport Stream ASI Outputs
- Transport Stream ASI Input
- Local control with front panel LCD and keypad
- Remote network management software

Technical specification

RECEIVER SPECIFICATIONS

Input level:	-25dBm to -65dBm
Input impedance and connector:	75 ohm "F" Female (with loop-through)
Input frequency:	950 to 2150MHz
Supported modulations:	QPSK and 8PSK according to DVB-S and DVB-S2 standard for Broadcast applications
Symbol rate:	1 to 45 M Symbol/sec (Mbauds) for QPSK (1 to 37 MS/s for 8PSK)
LNB power supply:	13/ 18V polarity switching, plus 22KHz
LNB current:	350mA max

VIDEO DECODER and OUTPUT

Data rate:	Up to 15Mbps
Supported compressions:	MPEG-2 (4:2:0 – MP@ML)
Standard	PAL, SECAM, NTSC
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:	Balance Analog (XLR)
Audio mode:	Stereo, Mono

DESCRIPTION – CONDITIONAL ACCESS

Interface	N°2 CI Slots
CA Methods:	Multicrypt, Simulcrypt
CAS	Conax, Irdeto, Viaccess, Nagravision, CTI, DV-Crypt, etc.
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/Package (Input); 188Byte/Package (Output)
Connector type:	"BNC" Female

GENERAL SPECIFICATIONS

Power supply:	90 to 250Vac, 50/60Hz
Net weight:	4,2Kg
Operating temperature:	0 to 40°C
Humidity:	10% to 90%
Housing:	Rack drawer 19" 1U



All specifications contained in this document may be changed without prior notice.