

IRD5001/AY

Integrated Receiver Decoder

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DVB-S/S2 – H.265/H.264/MPEG-2 – HD/SD IRD



KEY FEATURES

- **DVB-S** and **DVB-S2** compliant for Broadcasting applications
- **AVS+/H.265/H.264/MPEG-2 HD/SD** video decoding
- **DRA/AC3/EAC3/AAC/MPEG** audio decoding
- **N°2 CAM Slots** for Conditional Access
- **BISS-1/E** descrambling
- **Transport Stream ASI** input/output
- **Transport Stream over IP** input/output
- Local control with **front panel LCD** and keypad
- **Remote control** LAN interface

IRD5001/AY - TECHNICAL SPECIFICATIONS

RECEIVER SPECIFICATIONS

Input level	Approx. -25 to -65dBm
Input connector and impedance	F female 75Ω
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 45MS/s (according to modulation scheme)
LNB power supply	0V/13V/18V polarity switching, 22kHz on/off

VIDEO DECODER AND OUTPUT

Decoding formats	MPEG-2/MPEG-4/H.264 AVC/H.265 (HEVC)/AVS+
Resolution and frame rate	1080p60/p50/i60/i50 - 720p60/p50 - 576p/576i - 480p/480i
Standard	PAL, SECAM, NTSC
Digital outputs	2x HD/SD-SDI (BNC female), 1x HDMI
Analog output (Standard Definition only) – connector / impedance / level	BNC Female / 1Vpp / 75Ω

AUDIO DECODER AND OUTPUT

Decoding formats	MPEG-1 Layer I/II, MPEG-2 layer II, MPEG-2 AAC, MPEG-4 AAC LC, 2-CHANNEL/5.1 CHANNEL AC3/DRA/EAC3
Analog output	2 stereo pairs – 2x XLR 5-pole
Digital output	AES/EBU – 1x XLR 5-pole

ASI INPUT AND OUTPUT

In/out connector and impedance	1x BNC input 75Ω, 2x BNC output 75Ω
Data packet format	188/204 Byte per T.S. (Input); 188 Byte per T.S. (Output)

T.S. over IP INPUT AND OUTPUT

Interface	1x RJ45, 10/100 Base-T – effective rate 90Mbps
IP Encapsulation	MPEG T.S. over IP (as per Pro-MPEG Code of Practice #3 release 2)
Broadcasting type	UDP/RTP; unicast and multicast

DESCRIPTION – CONDITIONAL ACCESS

Interface	N°2 independent CI Slots (EN50221)
CA Methods	Multicrypt, Simulcrypt, Hot Plug
CAS	Conax, Irdeto, Viaccess, Nagravision, CTI, DV-Crypt, Novel SuperTV, Verimatrix and other major CAS
BISS-1/E	Supported

GENERAL SPECIFICATIONS

Power supply and consumption	Dual power supply 85-264Vac, < 40VA
Operating temperature and humidity	0 to 50°C, <95%
Housing	19" 1U rack chassis
Dimensions and weight	450 x 280 x 44mm, 3kg

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

ABE ELETTRONICA

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