

# IRD5001/AY

## Integrated Receiver Decoder

### IRD5001/AY

DVB-S/S2, DVB-T/T2 – H.265/H.264/MPEG-2 – HD/SD IRD



## KEY FEATURES

- **DVB-S** and **DVB-S2** compliant for Broadcasting applications
- Option for **DVB-T/T2 tuner** instead of **DVB-S/S2**
- **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

### DVB-S/S2 RECEIVER SPECIFICATIONS

<b>Input (level/connector/impedance)</b>	Approx. -25 to -65dBm / F female / 75Ω
<b>Input frequency</b>	950 to 2150MHz
<b>Supported modulations</b>	QPSK and 8PSK according to DVB-S and DVB-S2 for Broadcast applications
<b>Symbol rate</b>	1 to 45MS/s (according to modulation scheme)
<b>LNB power supply</b>	0V/13V/18V polarity switching, 22kHz on/off

### DVB-T/T2 RECEIVER SPECIFICATIONS

<b>Input (level/connector/impedance)</b>	Approx. -25 to -100dBm / F female / 75Ω
<b>Input frequency</b>	44 to 1002MHz
<b>Supported modulations</b>	DVB- T: QPSK, 16/64 QAM, DVB-T2: QPSK, 16/64/256 QAM
<b>Bandwidth</b>	6/7/8 MHz

### VIDEO DECODER AND OUTPUT

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

### AUDIO DECODER AND OUTPUT

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

### ASI INPUT AND OUTPUT

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

### T.S. over IP INPUT AND OUTPUT

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

### DESCRIPTION – CONDITIONAL ACCESS

<b>Interface</b>	N*2 independent CI Slots (EN50221)
<b>CA Methods</b>	Multicrypt, Simulcrypt, Hot Plug
<b>CAS</b>	Conax, Irdeto, Viaccess, Nagravision, CTI, DV-Crypt, NSTV, Verimatrix, other major
<b>BISS-1/E</b>	Supported

### GENERAL SPECIFICATIONS

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

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