

- Choice of DVB-S/S2, DVB-T/T2, DVB-C tuners
- MPEG-2, H.264, H.265 Decoder
- HDMI, Composite, ASI and IP Outputs
- ASI and IP inputs
- Built-in re-multiplexer
- TS over IP:
  - MPTS (Full Duplex)
  - up to 32 SPTS output (up to 32 TV channels); UDP/RTP, unicast/multicast
- Front panel and HTTP WEB GUI control and monitoring
- 2 DVB-CI Slots, compatible with: Conax, Cryptoworks, Irdeto, NDS, Mediaguard, SECA, Viaccess and more



## ADV-1000 H.264/H.265/MPEG-2 IRD IPTV Gateway

The ADV-1000 is a cost effective professional integrated receiver decoder and IPTV Gateway.

It is widely used in the satellite, cable and terrestrial TV network with different tuner frontend DVB-S2/S, DVB-C and DVB-T/T2. It demodulates the RF signal to the transport stream with ASI and TS/IP.

With dual DVB common slots, ADV-1000 works with most of the well-known CAS in the market and decrypts multiple services in a transport stream.

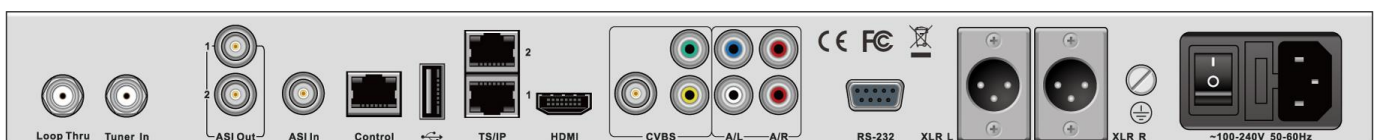
The decoder can process a variety of digital video formats in MPEG-4 AVC/H.264, MPEG-2, AVS+ and H.265, in Standard Definition and in High Definition.

The TV channel is decoded to digital and analog outputs: HDMI, CVBS, balanced and un-balanced audio.

The powerful demodulation, decryption and decoding capabilities, combined with user-friendly WEB GUI and SNMP based remote control makes this equipment one of the most competitive professional IRD in the market.

### Main Features

- Choice of tuners: DVB-S/S2, DVB-T/T2, DVB-C
- ASI and TS/IP inputs
- ASI and TS/IP outputs
- 2x DVB-CI Slots, Multi Programs, BISS-1 and BISS-E decryption
- MPEG-2, MPEG-4/H.264, AVS+ and H.265 digital video decoding
- Digital and analog video outputs: HDMI and CVBS
- Two digital audio channels decoding of MPEG1 Layer II, AAC and AC3 Dolby Digital, one Balanced Audio
- IP output: MPTS; up to 32 SPTS– **up to 32 TV programs**; UDP/RTP, unicast/multicast
- Remote Control and Supervision by SNMP and HTTP WEB
- Dynamic PMT auto detection and updating
- Support VBI TELETEXT, EBU/ DVB Subtitle
- Configuration save and load after power off



## Specifications

### Tuner Input

#### DVB-S/S2 Tuner Input

Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output
Input Frequency Range	950~2150MHz
Input Level	-25~-65dBm
Symbol Rate	2~45MBaud/s for QPSK and 8PSK
Roll Off Factor	DVB-S QPSK: 0.35 DVB-S2 8PSK: 0.35, 0.25, 0.2
FEC Code Rate	DVB-S QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9,9/10
LNB Polarity Selection Voltage	0, 13V, 18V selectable
LNB Band Selection Tone	0/22KHz selectable
Satellite Selection Command	DiSEqC 1.x

#### DVB-C Tuner Input

Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output
Input Frequency	48~860MHz
Input Level	45~75dBμV
Symbol Rate	1~7MBaud (ITU J.83 Annex A)
Constellation	16/32/64/128/256QAM
Bandwidth	6MHz/7MHz/8MHz
Input Return Loss	7dB (typ.)

#### DVB-T/T2 Tuner Input

Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output
Input Frequency	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
Guard Interval	DVB-T: 1/4, 1/8, 1/16, 1/32 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.)

#### ASI Input

Connector Type	1×BNC female, 75Ω
Standard	DVB-ASI, EN50083-9
Input Bit Rate	≤200Mb/s

#### TS over IP

Connector Type	2×RJ-45, 10/100/1000 Base-T for TS/IP
Effective Bit Rate	200Mb/s for full duplex without PromPEG FEC, 600Mb/s for 32xSPTS IP out only
Protocol	UDP / RTP, Multicast / Unicast, IGMPv3, ARP

#### TS Processing

Descrambler	DVB Common Scrambling Algorithm(CSA)
BISS Mode	BISS-1, BISS-E
Common Interface	Dual PCMCIA slots, compatible with major CA CAMs in the market

#### ASI Output

Connector type	2×BNC Female, 75Ω
Standard	DVB-ASI, EN50083-9

<b>HDMI Output</b>	
Standard HDMI	1×HDMI 1.4 interface (up to 1080p@60)
Video Resolution	1080p, 1080i, 720p, 576p, 480p, 576i, 480i
Audio Embedded	one digital audio pass through
<b>Digital Video Processing</b>	
Video Standard	MPEG-2(MP@ ML for SD,MP@HL for HD) MPEG-4/H.264 AVC Part 10 (MP@L3 for SD, HP@L4.1 for HD) AVS/AVS+ HEVC(main and main 10 profile, main/high tier up to level 4.1)
Video PID Bit Rate	<80Mb/s
<b>Digital Audio Processing</b>	
Number of Outputs	2×digital audio PIDs are decoded*
Sampling Rate	32, 44.1 and 48KHz
Audio Bit Rate	32, 64, 96, 128, 160, 192, 224,256, 288, 320, 352, 384, 416 and 448 kb/s for MPEG-1 Layer I 32, 48, 56, 64, 80, 96, 112, 128, 160, 192,224, 256, 320 and 384 kb/s for MPEG-1Layer II
<b>Analog Video Output</b>	
CVBS Connector	1×BNC 75Ω, 1×RCA 75Ω
Video Standard	NTSC, PAL, and SECAM
Signal Level	1.0 Vp-p ±5%
Frequency Response	<±1 dB, at 5.5 MHz for PAL/SECAM,4.2MHz for NTSC
Chroma-Luma Delay	<±30 ns
Field Time Distortion	<2%
Line Time Distortion	<1%
Short Time Distortion	<2%
Differential Gain	<3%
Differential Phase	<2°
Signal to Noise Ratio	>55 dB (luminance weighted)
<b>Analog Audio Output</b>	
Connector type	1 pair of XLR Male, 2 pairs of RCA
Output Impedance	600Ω (balanced)
Output mode	Left, Right, Dual Mono, Stereo
Number of Outputs	2 pairs of stereo audio outputs (2 Audio PIDs are decoded).
<b>Baseband Data Output</b>	
Subtitle	DVB/EBU
VBI	Teletext, WSS, VFD, VPS
<b>Control &amp; Monitoring</b>	
Connector Type	1×RJ-45, 10/100 Base-T for equipment IP Control
Remote Control	SNMP, HTTP Web
Local Control	LCD display and 6-key keypad
Serial Port	1×RS-232 9pin D-sub, for debug use only
Equipment Upgrade	FTP loader or USB
<b>Physical</b>	
Dimensions	44mm×483mm×255mm
Weight	2.4Kg Net, 4.4Kg Gross
Power Supply	AC 90V~250V, 50/60Hz
Power Consumption	24W
Operating/Storage temperature	0~45 / -10~60°C
Operating Humidity	10~90%, non-condensed
<b>Certification</b>	
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	