CODICO® IRD-2600
Professional MPEG-2, DVB Integrated Receiver Decoder

The CODICO® IRD-2600 is a professional receiver decoder rich in variety of video, audio and customizable options, based on MPEG-2 and DVB standards, ensuring an interoperable solution.

Capabilities and Options
- One unit rackmount enclosure
- DVB Common Interface (2 slot)
- QPSK, QAM, G.703 and DS3/ATM front end options
- ASI Transport Stream input or output
- On-board DVB descrambling with BISS (DSNG-CA) support
- High/Low speed data output
- Configured and controlled through front panel, terminal and remote control unit
- Advanced display and monitoring features
- VBI: Teletext, WSS, VPS, CC
- Enhanced VITS, VITS BAR
- Built-in test patterns
- Enhanced DVB Monitoring software
- Dolby Digital AC-3 Pass-through
- OSD, DVB Subtitling

Flexibility
- All video formats are supported
- Wide variety of options
- Remote control via transport stream (link)
- Safe software download via transport stream
- Data Only mode - operates as a data terminal
- Radio mode - operates as a radio receiver
- SCPC and MCPC operation
- Decoder Only mode
- Redundancy support
- SDI, AES/EBU output
- Russian SECAM

Applications
- Digital Turnaround
- CATV Head-end distribution
- Satellite, Telecom distribution
- DVB-CI Decryption for Transport Stream re-multiplexing
- ASI or SPI DVB interface for: Transport stream monitoring Transport stream re-multiplexing Decoder cascading
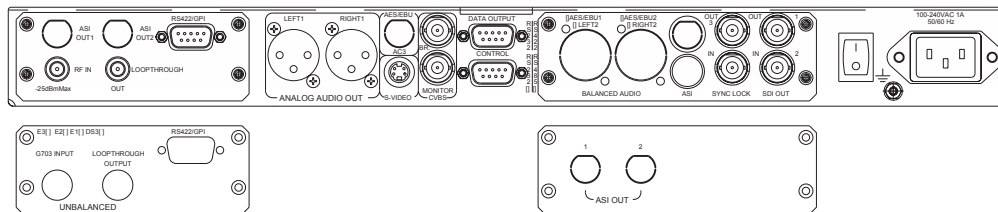- Bilingual audio transmission
- DSNG

DVB Digital Video Broadcasting

MPEG-2

TADIRAN SCOPUS Digital Video Compression

DVB Satellite QPSK Front End

Frequency range	950 – 2150 MHz
Adjustable Digital Filter	1 – 45 MSPS
LNB Control	14V, 18V, off, 22KHz
RF loop-through	
Viterbi rate detection	Auto
Spectral Inversion	Auto
Eb/No	Better than DVB requirement

Telecom Front End (option)

Interface	G.703
Rates (unframed)	E1 (Balanced or Unbalanced) E2 or E3
FEC (option)	Reed Solomon
Rates (framed)	E3, T3, DS3, OC-3 (ATM-AAL1)

DVB Cable QAM Front End (option)

QAM demodulation	16/32/64/128/256
VHF/UHF input	50.5 to 858MHz
Noise Figure	8 to 13dB
Symbol Rate	1 to 7 Mbaud

Decoder Input Interface (option)

RS-422 Clock/Data input

ASI input and up to 3 ASI outputs

• 1 X Loop-through: active or passive (option)

• 2 X decrypted

DVB - CI Decryption (Option)

2 slots CI module - DVB EN-50221

CA Method - Multicrypt, Simulcrypt

Physical

One rack unit	4.4 X 48.2 x 30.2cm 1.75" X 19" X 11.9"
Weight	2.5kg / 5 Lbs
Air flow clearance	Not required
Temperature	0-50°C Operating
Power requirement	100-240 VAC 50/60 Hz -48v (option)

Features

Video Format	PAL B/G/M/N/D NTSC SECAM L/B/G/K1
Decoder Mode	Video, Audio, Data TV or Radio or Data
Option	SECAM D/K (Russian)
VBI	Teletext, WSS, VITS (option), CC
Conditional Access	BISS (DSNG-CA), DVB - CI

Output Interface

Video	2 Composite, 1 S-video
Audio	1 Stereo Balanced (XLR) Mono Switch Volume Adjustment AC-3 pass-through
Low Speed Data	Up to 115Kbaud RS-232 Interface
High Speed Data	Up to 20Mbps RS-422 Interface
Options	Sync Lock & Loop-through 2 SDI, Embedded Audio 2nd Stereo pair Balanced or unbalanced Audio 2 AES/EBU Alarm Relay GPI Enhanced VITS 8 Built-in BAR generator

Optional ASI input and up to 3 ASI outputs

• 1 X Loop-through: active or passive (option)

• 2 X decrypted (option)

Operation

Control	Front Panel Infrared R.C. (option) PC (RS-232) Via transport stream
Software download	PC (RS-232) Via transport stream
Configuration	Flexible to customer request

Enhanced DVB monitoring capability

Advanced satellite scanning

Redundancy support

MPEG-2

DVB
Digital Video
Broadcasting