

BOARD PLUG-IN EK-CDC/2 "CODEC MPEG-2"



The board EK-CDC/2T allows to code and decode a video signal plus two audio channels in digital form according to specific MPEG-2 (Main profile@ Main level 4:2:0).

The encoder section has one analogue video input, two analogue audio input and one ASI interface that allows a direct connection to more DVB-T Transmitters. The decoder section has one analogue video output, two analogue audio output and one digital input on ASI interface (Asynchronous serial interface).

With the EK-CDC/2T version board it is possible to manage every teletext signal present inside of the video input.

The same input and output interfaces can be used with digital signals, SDI for the video signal and AES-EBU for audio signals. The main feature of this board is the standard availability of a multiplexer that allows to carry more video/audio channels simply inserting more EK-CDC/2T boards inside the same Mainframe.

Features

- MPEG-2 4:2:0
- DVB-ASI Input /Output
- NTSC/PAL compliant input
- MPEG-1 LAYER 1/2 audio encoding
- SDI digital video interface
- AES-EBU digital audio
- Analogue Audio Input/Output
- Multiplexer embedded
- Pid filtering function
- SI table management
- LCN function
- Teletext for CVBS input
- Complete web management

Applications

- Digital Microwave Links
- DTV, DVB-T, DVB-S
- Terrestrial and satellite use



TECHNICAL SPECIFICATION

Video input	
Video input format	Analogue: Composite PAL/NTSC
Composite video input	1 Vpp 75 Ohm with BNC socket
Digital video input	SDI
Video encoding	
Standard	ISO / IEC 13818-2 MP@ML (MPEG-2 4:2:0)
Bit-Rate	0.800 ÷ 13.408 Mb/s
Supported resolution	Full D1, 3/4 D1, 2/3 D1, HD1, SIF
VBI processing	Teletext only on EK-CDC/2T Board
Audio input and encoding	
Analogue Audio input format	Two channels
Digital Audio input format	AES – EBU on Hirose 6 poles connector (XLR as option using a cable adapter)
Analogue Audio input level	Selectable between – 6 dB ÷ 0.5 dB
Analogue Audio input impedance	Selectable between 600 Ohm ÷ 10000 Ohm
Analogue Audio output level	Selectable between – 6 dB ÷ 0.5 dB
Sampling frequency	32 KHz, 44.1 KHz, 48 KHz
Encoding Standard	ISO / IEC 11172-3 (MPEG-1 audio) layer 1/2 - compliant
Bit-Rate	32 Kb/s, 48 Kb/s, 56 Kb/s, 64 Kb/s, 80 Kb/s, 96 Kb/s, 112 Kb/s, 128 Kb/s, 160 Kb/s, 192 Kb/s, 224 Kb/s, 256 Kb/s, 320 Kb/s, 384 Kb/s Max 384 Kb/s
Stream and interfaces	
Stream type	Transport stream on ASI interface
Stream multiplexing	ISO / IEC 13818-1 (MPEG-2)
System Bit-Rate	up to 45 Mb/s on 100 Kbit step
Multiplexing	
Tables	Add/ modify (NIT, SDT,PAT,PMT)
Settings	Fixed or by software via Ethernet 10/100 base T
Output digital interface	DVB - ASI

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