

ALL4DIGIT
SYSTEM

MOD. EK- CDC/1



BOARD PLUG-IN "CODEC MPEG-2"

The board EK-CDC/1 allows to codify 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 output on 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/1T version board it is possible to manage every teletext signal present inside of the video input.

The main characteristic is the standard availability of a multiplexer that allows to transfer more video/audio channels only inserting more EK-CDC/x boards inside the Mainframe.

Features

- MPEG-2 4:2:0
- DVB-ASI Input / Output
- NTSC/PAL compliant Input
- MPEG-1 LAYER 1/2 audio encoding
- Multiplexer embedded
- Pid filtering function
- SI table management
- LCN function
- Teletext option

Applications

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

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TECHNICAL SPECIFICATION

| Video input | |
|---------------------------------|--|
| Video input format | Analogue : Composite PAL |
| Composite video input | 1 Vpp 75 Ohm with BNC socket |
| 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/IT Board |
| Audio input and encoding | |
| Audio input format | Analogue : Two channels |
| Audio input level | Selectable between -6 dB ÷ 0.5 dB |
| Audio input impedance | Selectable between 600 Ohm ÷ 10000 Ohm |
| 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 |
| Stream and interfaces | |
| Stream type | Transport stream on ASI interface |
| Stream multiplexing | ISO / IEC 13818-1 (MPEG-2) |
| System Bit-Rate | up to 45Mb/s on 100Kbit 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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