

DATASHEET



MUX841

MPEG2 Audio-Video Coder Multiplexer (briefly Multiplexer MUX841)

MUX841

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2. GENERAL DESCRIPTION

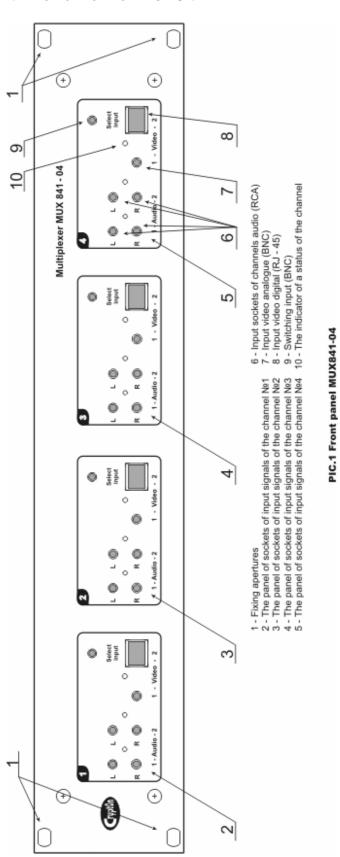
MUX841 is a 4-channel MPED2 video/audio encoder/multiplexer that is a part of Crypton digital TV system. It makes one multiprogram DVB transport stream from 4 input CVBS or D1 video and 4 stereo audio signals. You can easily choose witch one of its CVBS or D1 inputs is to be selected as an input of a MPEG2 encoder. PID and SI edit functions are also possible with the device application control software wire RS-232 interface port.

3. Key features

- CCIR-656(D1) or analogue Composite video input.
- MPEG-2 4:2:0 MP@ML video encoding.
- MPEG Layer 2 and Layer 1 audio encoding
- · Highly efficient multiplexing algorithms
- Device control software is available
- RS-232 interface control.
- Led check for availability

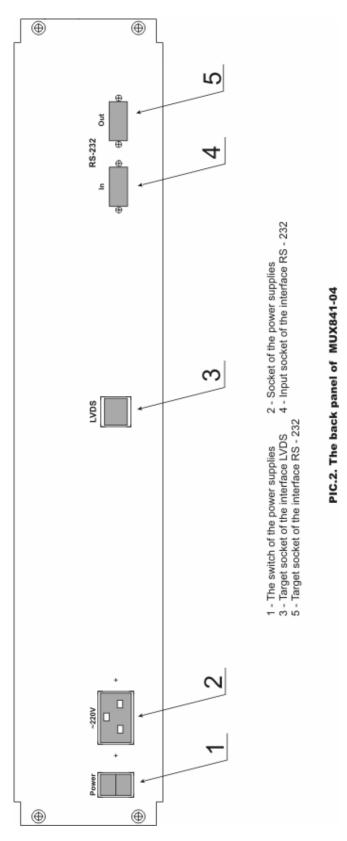


4. Front view of MUX841



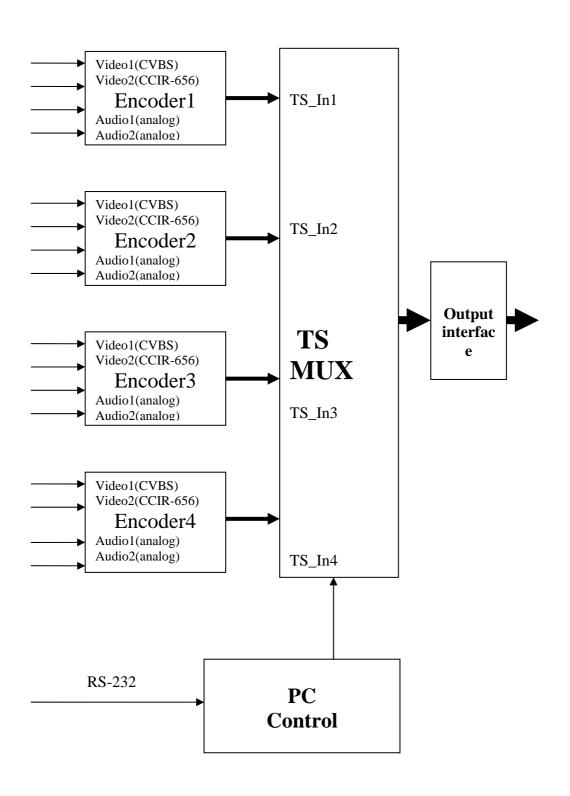


4. Rear view of MUX841 (continue)





6. Block Diagram



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7. FUNCTION OVERVIEW

MPEG2 Encoder

Selects one of its analog CVBS or D1(CCIR-601) inputs. Video encoding according to ISO/IEC13818-2(MPEG2 video). Audio encoding according to ISO/IEC11172-3(MPEG1 audio).

• TS Multiplexer

Multiplex 4 audio/video inputs into a one DVB transport stream EN50083-9. Replacement PID's

Replacement of the SI/PSI tables

• Output interface module

Performs interface agreement between the multiplexer and external devices (computer)

• PC Control

PC configuration of some multiplex functions of the device.

PID replacement and SI/PSI edit over RS-232.



8. TECHNICAL SPECIFICATION

The functional characteristics

Parameter	Option values	Notes
Format of input video signal	PAL, ITU/CCIR-656(D1)	
Number of a video - inputs(entrances)	4	
Number of аудио – inputs	4	Stereo
Control	RS – 232	Type of a socket – DB-9
Outputs	Serialized DVB TS EN50083-9	Type of a socket - RJ45
VIDEO ENCODER	Corresponds ISO/IEC 13818-2 (MPEG-2 video), ISO/IEC 11172-3 (MPEG-1 video).	
AUDIO ENCODER	Corresponds ISO/IEC 11172-3 (MPEG-1 video).	Sampling rates – 48 кГц
Output Bit Rate for encoder, Mbit/s	4	Summary to one channel
Summary Output Bit Rate, Mbit/s	16.5	
Functions of the multiplexer	4 channel multiplex, editing of the service information	

The electrical characteristics of audio channels

Parameter	Option values	Notes
Level of an input signal, V, no more	1	
Frequency a range, Hz, not less	40 - 15000	
Non-uniformity AFC, dB, no more	1	
Factor of nonlinear distortions, %, no more	0,3	
Entrance impedance, to ohm	30 (+/-10%)	is normalized

PHYSICAL AND POWER

Parameter	Option values	Notes
Power Input, Vac	90 - 260	Single-phase network
Power consumption, W, no more	40	From a single-phase network
Average time of a time between failures, hours	10 000	
Average service life, years	1	
Dimensions	2U	Euromechanical