

MB86393

MPEG-2 Single Chip Audio/Video Encoder

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OVERVIEW

Fujitsu's **MB86393** is a full MP@ML compliant MPEG-2 encoder that integrates video, audio, system encoders including memory (FCRAM) and PCI interface on a single chip.

The MPEG-2 Encoder takes advantage of the high-performance MPEG-2 compression algorithm developed by Fujitsu. This device is a combination of Hardware and Software processed by an internal SPARClite CPU. It is expected to be a key component for realising higher performance and highly compact digital audio-visual equipment, such as disk recorders, camcorders, video communication, etc.

FEATURES

- Single Chip Encoder
- Video Encoder
 - MPEG-1 (ISO/IEC11172-2)
 - MPEG2 MP@ML encoding function (ISO/IEC13818-2)
 - NTSC and PAL Video formats
 - Maximum bit-rate is 15Mbps
 - Video Input Interface: ITU-R 656
- Audio Encoder
 - MPEG1 Audio layer-1/2 encoding function (ISO/IEC11172-3)
 - Maximum bit-rate is 448kbps
 - Audio Interface: I2S
- System Multiplex
 - Output format is selection of PS, TS and MPEG-1 System.
 - Constant or Variable Bit Rate (CBR / VBR)
 - Maximum bit-rate is 20Mbps
 - External or internal TS clock
- Internal FCRAM Memory in System in Package (SiP) technology
- PCI Interface (V2.2)
- Frame Synchronizer
- Internal 32bit RISC processor
- Package: FLGA 288 pin
- Operating temperature: 0°C to +70°C
- Power consumption: typ. 800mW

TYPICAL APPLICATIONS

- Video distribution systems
- Car entertainment systems
- Video conference systems
- Digital video recorder
- D-VHS recorder
- D-STB, Personal Video Recorder (PVR)
- Video disk recorder
- MPEG-2 PC encoder card
- Surveillance systems
- Head-end stations
- and more ...

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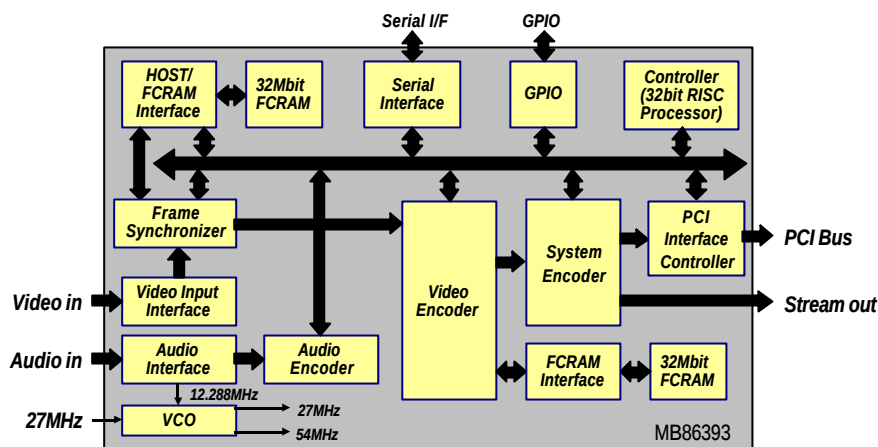


Figure: Block Diagram

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