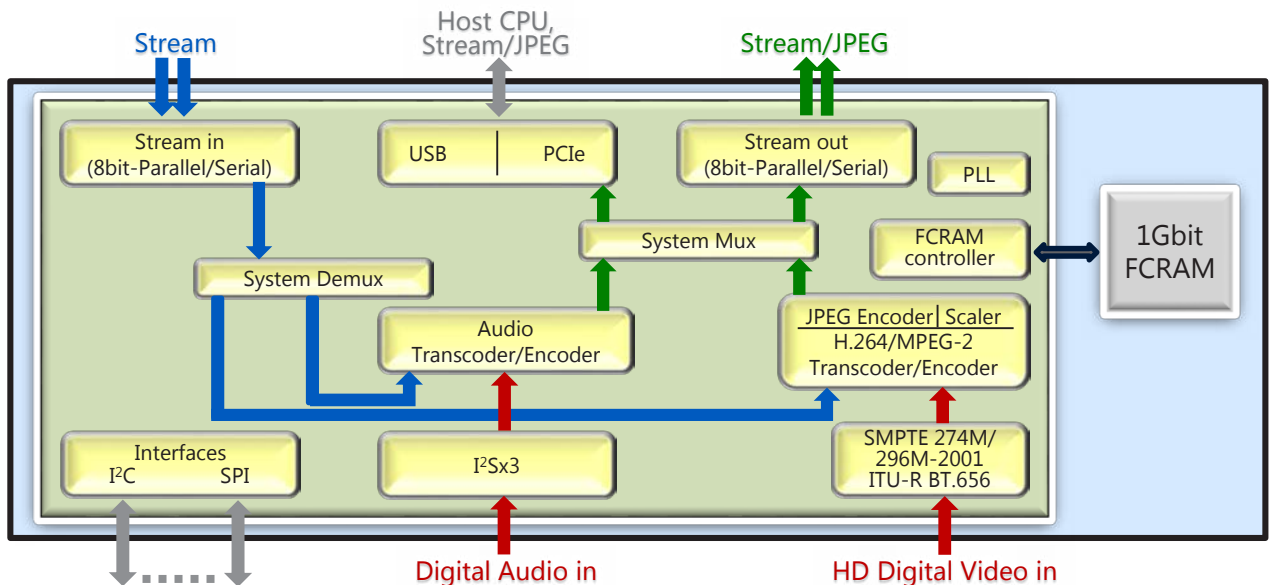


H.264/MPEG-2 Full HD Transcoder MB86M25

■ Overview

“MB86M25” converts between Full HD (1920 x 1080 pixels) H.264 video data and MPEG-2 video data, as well as transcoding between audio formats while featuring a low power consumption.

MB86M25 also transcodes from H.264 video to H.264 video with higher-compression ratio to reduce the size of video data.



■ Features

- Build-in H.264/MPEG-2 transcoding functions, audio transcoding functions
- Industry-leading low power consumption that is just 1.2W when using the H.264 transcoding function, even including the memory
- Embedded 1 Gbit of memory (FCRAM) in the package

■ Applications

- Broadcasting
- Security
- Medical
- Video capture
- Video conference

■ Specifications

Function	<ul style="list-style-type: none"> • Transcode • Encode • Thumbnail 	<ul style="list-style-type: none"> • Video MPEG-2 HD/SD ⇒ H.264 HD/SD + H.264 SD or lower H.264 HD/SD ⇒ H.264 HD/SD + H.264 SD or lower MPEG-2 HD/SD ⇒ MPEG-2 SD H.264 HD/SD ⇒ MPEG-2 SD • Audio Single Audio Transcode, Double Audio Re-multiplexing support • PSI / Private PES Re-Multiplexing • Video VBS*¹ ⇒ H.264HD/SD + H.264 SD or lower, VBS ⇒ MPEG-2SD • Audio ABS*² ⇒ MPEG-1 Audio Layer2, etc. • JPEG Encode
Video	<ul style="list-style-type: none"> • Profile • Interface 	<ul style="list-style-type: none"> • H.264 High profile, H.264 Main profile, H.264 Baseline profile, MPEG-2 Video Main profile • SMPTE 274M/SMPTE296M-2001, ITU-R BT.656
Audio	<ul style="list-style-type: none"> • Format • Channels • Interface 	<ul style="list-style-type: none"> • Dolby® Digital(AC-3)*³, MPEG-2/4 AAC-LC/HE-AAC, MPEG-1 Audio Layer2 • Max. 5.1ch*⁴ • I2S
JPEG	<ul style="list-style-type: none"> • Resolution 	<ul style="list-style-type: none"> • QVGA
Stream	<ul style="list-style-type: none"> • Format • Interface 	<ul style="list-style-type: none"> • MPEG-2 TS, MP4 • USB2.0, PCI Express, Stream(8bit parallel, Serial) [2input, 3output]
Host Interface		USB2.0, PCI Express, Serial(UART)
Peripheral I/O		I2C, SPI
Input Clock Frequency		27MHz
Power Consumption (including memory)		1.2W (typ., 1.2V, H.264 HD to H.264 HD Transcoding)
Package		FBGA 490pin 21mm square SiP (Ball pitch 0.8 mm)
Memory		1Gbit FCRAM* ⁵ ×1

*1 Video Baseband Signal

*2 Audio Baseband Signal

*3 Dolby is a registered trademark of Dolby Laboratories.

*4 Number of channels depend on audio format.

*5 FCRAM is a trademark of Fujitsu Semiconductor Limited.

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