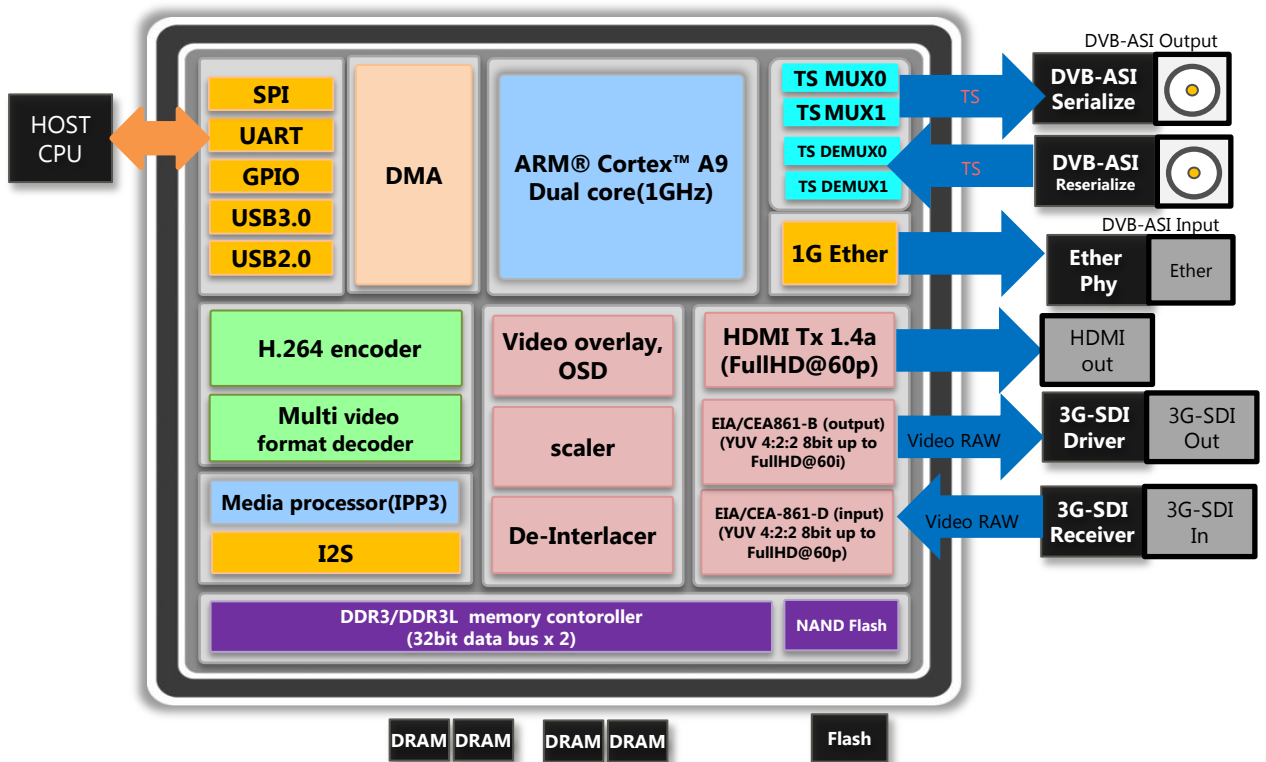
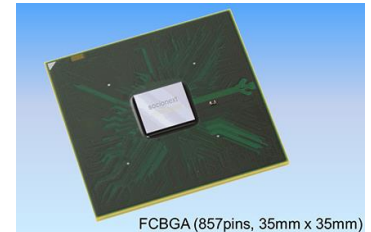


H.264 Full HD Multi Channel Codec SC2M15

Overview

“SC2M15” provides H.264/AVC, audio and system decoding, transcoding and encoding on a single chip. The SC2M15 is slave type device controlled by host CPU via serial command interface (UART).



Features

- Easy to use command interface allows external host CPU to control various functions of SC2M15
- High-quality video encoding even at low latency and low bit-rate
- High-end decoding for full-HD/60p video data

Applications

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

■ Specifications

Video	• Encoding	H.264 4:2:0 8bit(up to 1080p60, 1080i60) Multiple channel operation: one input to three output
	• Decoding	H.264 4:2:0 8bit(up to 1080p60, 1080i60) MPEG2 4:2:0 8bit(up to 1080p60)
	• Transcoding	MPEG2 to H.264, H.264 to H.264 Multiple channel operation: maximum 1080i60 x 3 channels
Audio	• Encoding	• MPEG-2 AAC, HE-AAC and MPEG-1 Audio Layer 2
	• Transcoding	• MPEG-2 AAC, HE-AAC and MPEG-1 Audio Layer 2
	• Pass through (Plan)	• MPEG-2 AAC, HE-AAC and MPEG-1 Audio Layer 2, AC3
Image Pre-Processing		<ul style="list-style-type: none"> • Scaling • OSD overlay (Plan) • De-Interlacer
Interface	• Control	UART(TXD/RXD) x 1ch
	• Stream	TS-Serial Input x 2ch, Output x 2ch, Ethernet MAC(RGMII) x 1ch
	• Peripheral	USB Storage(2.0 x 1ch, 3.0 x 1ch)
	• Audio/Video	I2S Input x 1ch, I2S Output x 1ch, Video Parallel Input(YCbCr422) x 1ch, Video Parallel Output(YCbCr422) x 1ch, HDMI-Tx x 1ch Support CEA-861(EAV/SAV isn't supported)
System	• CPU	ARM Cortex-A9 1GHz Dual core (2500 DMIPS)
	• Memory	(16bit x 2) DDR3 1600Mbps x 2
	• Boot Device	NAND
Technology	• Process	40nm
	• Package	FC-BGA(35mm ² , 1.0mm-pin pitch)