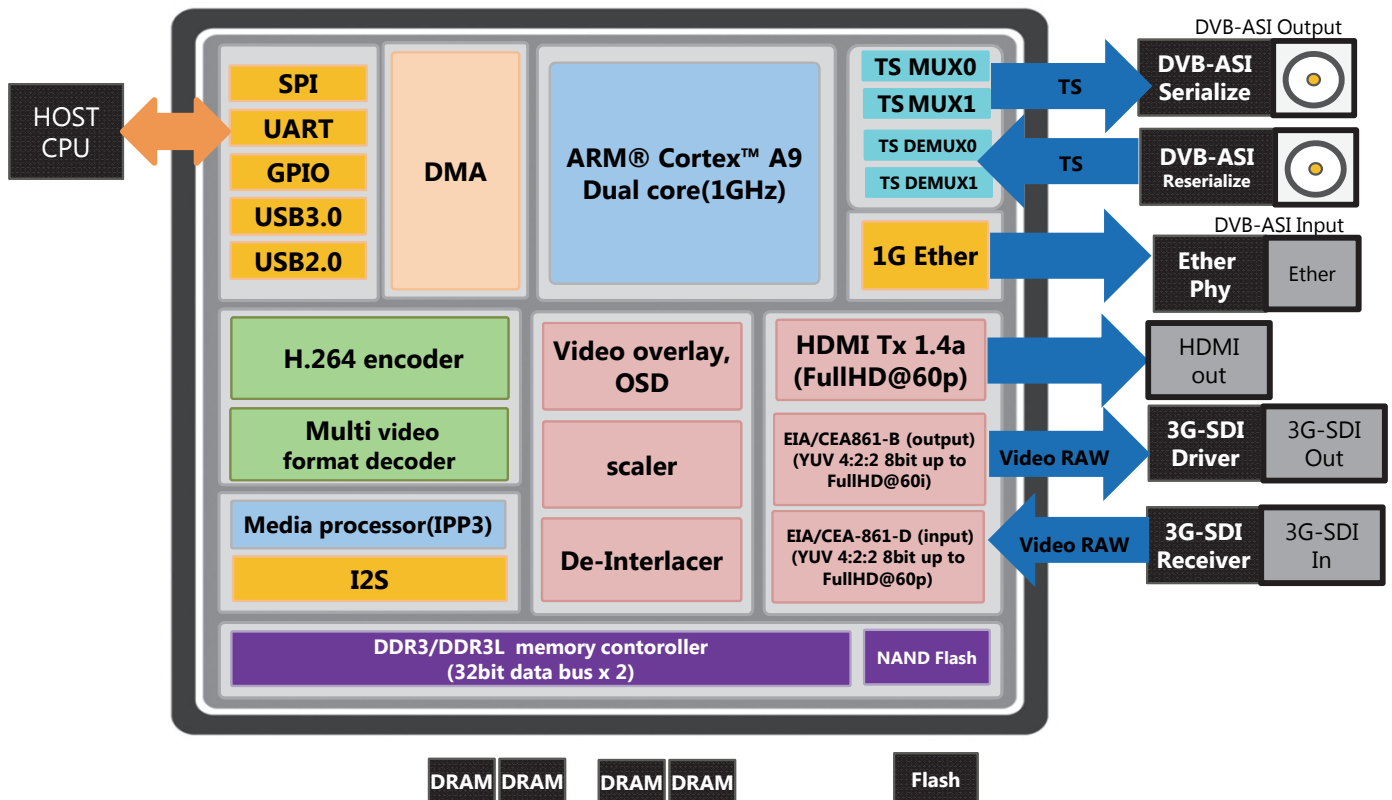
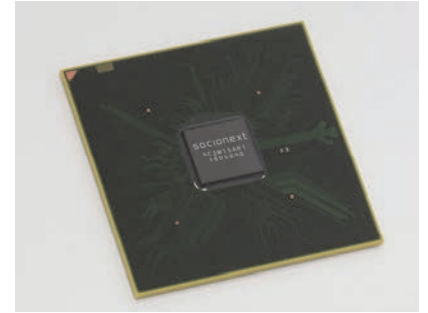


H.264 Full HD Multi Channel Codec SC2M15

■ 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

- Transcoding/encoding 3-stream of full-HD video data simultaneously
- Easy to use command interface 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	<ul style="list-style-type: none"> • Encoding • Decoding • Transcoding 	<p>H.264 4:2:0 8bit(up to 1080p60, 1080i60) Multiple channel operation: one input to three output</p> <p>H.264 4:2:0 8bit(up to 1080p60, 1080i60) MPEG2 4:2:0 8bit(up to 1080p60)</p> <p>MPEG2 to H.264, H.264 to H.264 Multiple channel operation: maximum 1080i60 x 3 channels</p>
Audio	<ul style="list-style-type: none"> • Encoding • Transcoding • Pass through (Option) 	<ul style="list-style-type: none"> • MPEG-2 AAC, HE-AAC and MPEG-1 Audio Layer 2 • MPEG-2 AAC, HE-AAC and MPEG-1 Audio Layer 2 • MPEG-2 AAC, HE-AAC and MPEG-1 Audio Layer 2, AC3
Image Pre-Processing		<ul style="list-style-type: none"> • Scaling • OSD overlay (Option) • De-Interlacer
Interface	<ul style="list-style-type: none"> • Stream • Peripheral • Audio/Video 	<p>TS-Serial Input x 2ch, Output x 2ch, Ethernet MAC(RGMII) x 1ch</p> <p>USB Storage(2.0 x 1ch, 3.0 x 1ch)</p> <p>I2S Input x 1ch, I2S Output x 1ch, Video Parallel Input(YCbCr422) x 1ch, Video Parallel Output(YCbCr422) x 1ch, HDMI-Tx x 1ch</p>
System	<ul style="list-style-type: none"> • Memory • Boot Device 	<p>(16bit x 2) DDR3 1600Mbps x 2</p> <p>NAND</p>
Technology	<ul style="list-style-type: none"> • Process • Package 	<p>40nm</p> <p>FC-BGA(35mm², 1.0mm-pin pitch)</p>