
March 19, 2012

Main Specifications of the R-Home S1 SoC

- CPU
 - Main CPU
 - Dual core ARM® Cortex™ A9 MPCore™
 - 5000 DMIPS@1 GHz
 - Sub CPU
 - SH4AL
 - 900 DMIPS@432 MHz
 - Standby CPU
 - ARM7TDMI®-S
- Memory Interface
 - DDR3:1600 MHz, 32-bit bus, Up to 2 GB space
 - NOR, NAND, Serial flash ROM
 - SD/MMC Interface
- MPEG TS demux engine
 - Support TS 6ch input
- DVB-C Demodulator
 - DVB-C ETS 300-429 compliant
- Video Decoder
 - MPEG2 MP@HL
 - MPEG4 AVC HP@L4.2
 - MPEG4 MVC: Stereo HP@L4.1
 - VP6, Sorenson spark
- Video Encoder
 - MPEG2
 - MPEG4 AVC
 - Up to 720p30fs

- Audio Decoder
 - MPEG1 / MPEG2 layer 1 or 2, MP3
 - MPEG2 AAC, MPEG4 AAC, HE-AAC V1 L2/L4, V2 L2/L4
 - Dolby® Digital, Dolby Digital Plus, MS11
 - DTS®
- Display & Graphics
 - Main Display Video 2 plane, OSD 2 plane, Background 1 plane
 - Sub Display Video 1 plane, OSD 1 plane, Background 1 plane
- 3D Graphics
 - PowerVR™ SGX531
 - Support OpenGL® ES2.0, OpenVG™
- Peripheral
 - USB2.0 host controller x 3 ch
 - Ethernet controller x 2 ch (1G Ether x 1 ch, 100M Ether x 1 ch)
 - UART x 3 ch
 - Smartcard x 2 ch
 - I²C x 2 ch
 - IR receiver
 - SATA/eSATA x 1 ch
 - PCI Express® x 1 ch
- Video/Audio output
 - 6 ch Video DAC
 - HDMI® output
 - 2 ch Audio DAC
 - I2S x 2 ch (2 ch, 5.1 ch)
 - SPDIF output
- Package
 - 544-pin PBGA 27 mm x 1 mm pitch

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