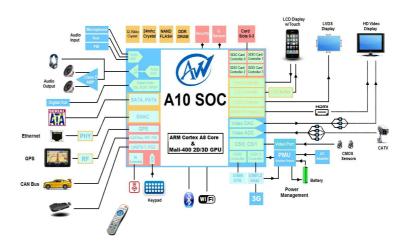


AW-SOM A10 SODIMM Single Core





Key Features

VPU

- HD Video Decoding (Super HD 2160P/3D Film) Support all popular video formats, including VP8 AVS, H. 264 MVC, VC-1, MPEG-1, 2,4, ...
- HD Video Encoding (H.264 High Profile)
 Support encoding in H.264 format
 1080p @ 60 fps
 720p @ 100 fps

DPU

MULTI-CHANNEL of HD displays

Built-in HDMI v1.3/v1.4 YPbPr. CVBS.VGA

LCD interfaces: CPU, RGB, LVDS up to Full HD

Rich Connectivity

- THREE USB2.0 Port (OTG/HOST)
- CSI(2), TS(2)
- SD Card3.0(4)
- 10/100 Ethernet controller & PHY
- CAN Bus, Built-in SATA2.0 Interface
- 12S,SPDIF and AC97 audio interfaces
- PS2 (2), SPI (4), TWI (3) and UART (8)

Boot Devices

- On board NAND FLASH
- SPI NOR FLASH
- SD Card
- USB

Powerful Acceleration

- Graphic(2D/3D,Mali400 MP)
- VPU(Super HD)
- APU
- E-reader

Support text in EPUB, PDF, FB2, PDB, CHM, HTML, TXT

Support coding format in ANSI/ASCII, UTF-8, UTF16-BE, UTF16-LE, GB2312, EUC-KR, SHIFT-JIS, Windows-1250/1251

Support Chinese, English, French, Italian, Spanish, Dutch, Russian, Japanese, and Korea

CPU/GPU

- ARM Cortex-A8 at 1 Ghz without cooling
- 32KB I-Cache/32KB D-Cache
- •256KB L2 Cache
- MALI 400 MP GPU

Memory

- DDR3 SDRAM, 32-bit
- 16G bits Memory Capacity
- SLC/MLC/TLC/DDR NAND
- 4 flash chips, ECC 64bits
 Memory Capacity up to 64GB/chip

Security

- Trustzone Technology and DRM
- Supports DES, 3DES AES encryption/decryption
- Support SHA-1, MD5 message digest
- hardware 64-bit random generator
- 128-bit EFUSE chip ID

PMU

- · Flexible built-in power options
- Intelligent Power Select allocateds power safely and transparently among USB, external AC adapter, Li-battery and application loads
- · adaptive and USB-compatible PWM charger

Dimensions

- 52.1mm x 67.7mm x 4.8mm
- 200 Pin SODIMM Footprint

Benefits

- Very high performance processing and multimedia capabilities
- Hardware acceleration enables very low power consumption for HD video and graphics
- High level of integration makes you can launch product in less time, with less effort and at a lower total system cost
- Optimized Standard Operation Procedure(SOP) creates high First Pass Yield(FPY) in mass production
- Open Source (Android, Linux, WinCE6.0)