A10s

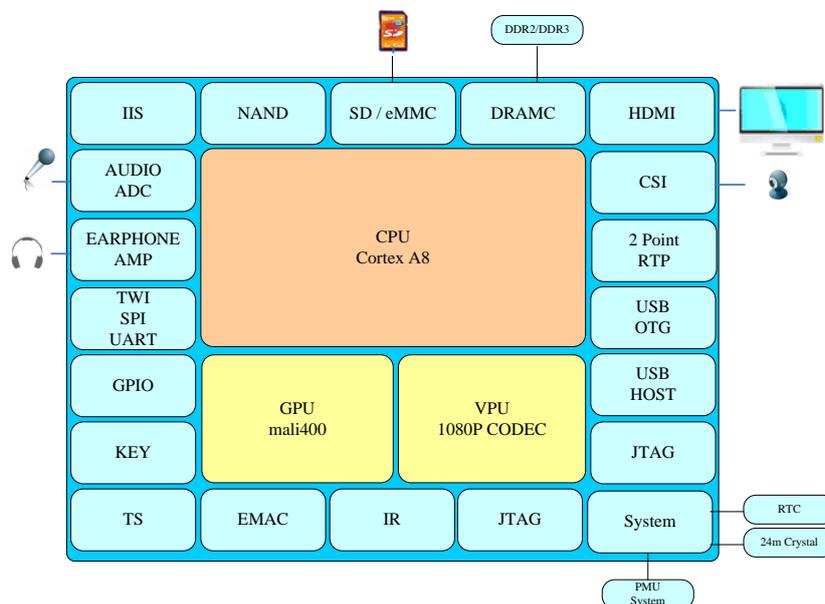## *ManyCore SoC for Homlet*

Overview

Allwinner Tech has expanded its processor lineup to include a new **ARM Cortex-A8** chip A10s which is even more competitive for Homlet with higher performance (ManyCore Structure), **lower power consumption**, and lower total system cost.

As the brains of **Android 4.0.4**, A10s makes multitasking smoother, apps loading more quickly, and anything you use responds instantly. What's more important, A10s is available in **BGA336 package with Audio Codec, and HDMI integrated**.

Feature

CPU/GPU

- **ARM Cortex-A8 Core**
- **32KB D-Cache/ 32KB I-Cache**
- **256KB L2 Cache**
- **Mali-400 3-D Engine**

VPU

HD Video Decoding

- **1920*1080@30fps**
- Support H.264、H.263、VC1、Mpeg1/2/4、 Divx 3/4/5/6、Xvid、VP6/8、AVS etc

HD Video Encoding

- Support encoding in H.264 format
- **up to 1920*1080@30fps**

HDMI

- **V1.4 Compatible**
- 1080P Output

Memory

DDR2/DDR3: Up to 533MHz

- 16/32 bits Data Bus
- Memory capacity up to 1GB

MLC/TLC/SLC/EF-NAND

- ECC 64-bit
- Support NAND of 4xnm, 3xnm, 2xnm…
- Support NADN of Samsung, Toshiba, Hynix…

Peripherals

- USB2.0 OTG
- USB2.0 HOST（OHCI/EHCI）
- SD Card V.3.0, eMMC V.4.2
- SPI, TWI and UART
- TS Port
- EMAC
- CSI
- IIS

Audio Codec

- integrated Audio Codec
- MIC/FM/LINEIN Input

Boot Devices

- NAND Flash
- SPI Nor Flash
- SD Card
- USB

Powerful Acceleration

- Graphic (3D, Mali400 MP)
- VPU（1080P）
- APU

Ultra-low System Power Consumption

- 15~20% lower than competitors

Package

- *BGA336,14mm*14mm*

Application

- HDMI Dongle
- Homlet

Benefits

- Optimum multimedia and processing abilities
- Lower power consumption of HD videos and graphics due to hardware acceleration
- Much faster, easier and cost efficient product launch due to the high integration
- Total solution, including OS BSP(Android 4.0.4 UP)

Contact

Website: www.allwinnertech.com

E-mail: service@allwinnertech.com

※ **Company Profile**

Allwinner Technology, established in 2007, is a leading fabless semiconductor company in China, supplying customers with cost-efficient SoC products as well as market-oriented total solutions. In the past few years, Allwinner Technology has won great reputation in HD PMP and HD Media box, and currently is dedicated to the research of connected videos, such as *CLOUD Video and CLOUD Device System Solution.*