

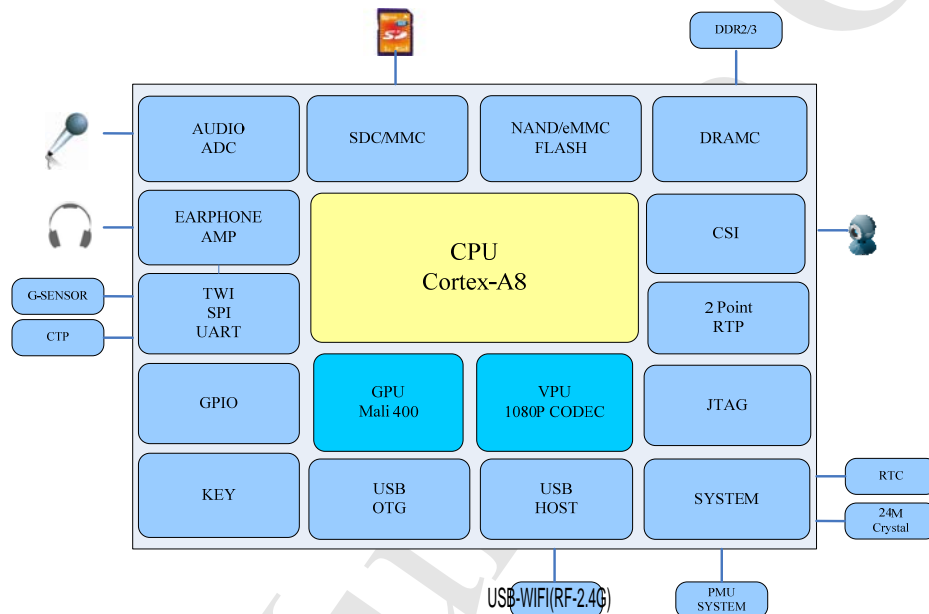
A13

ManyCore Lite SoC for Android 4.0 PAD

Overview

Allwinner Tech has expanded its processor lineup to include a new **ARM Cortex-A8** chip A13 which is even more competitive for Android tablets with higher performance (ManyCore Lite), **lower power consumption**, and lower total system cost. As the

brains of **Android 4.0.3**, A13 makes multitasking smoother, apps loading more quickly, and anything you touch responds instantly. What's more important, A13 is available in **eLQFP176 package with Audio Codec, and 2 Points R-TP 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**

DPU

- LCD Interfaces: CPU, RGB

Memory

DDR2/DDR3: Up to 533MHz

- 16 bits Data Bus
- Memory capacity up to 512MB

MLC/TLC/SLC/EF-NAND

- 2 flash chips, ECC 64-bit
- Support NAND of 5xnm, 4xnm, 3xnm, 2xnm...
- Support NADN of Samsung, Toshiba, Hynix...

3. WiFi Module Diagram

3.1. Single-Band 11n (1x1) Solution (11n 1x1 MAC/BB/RF+PA)

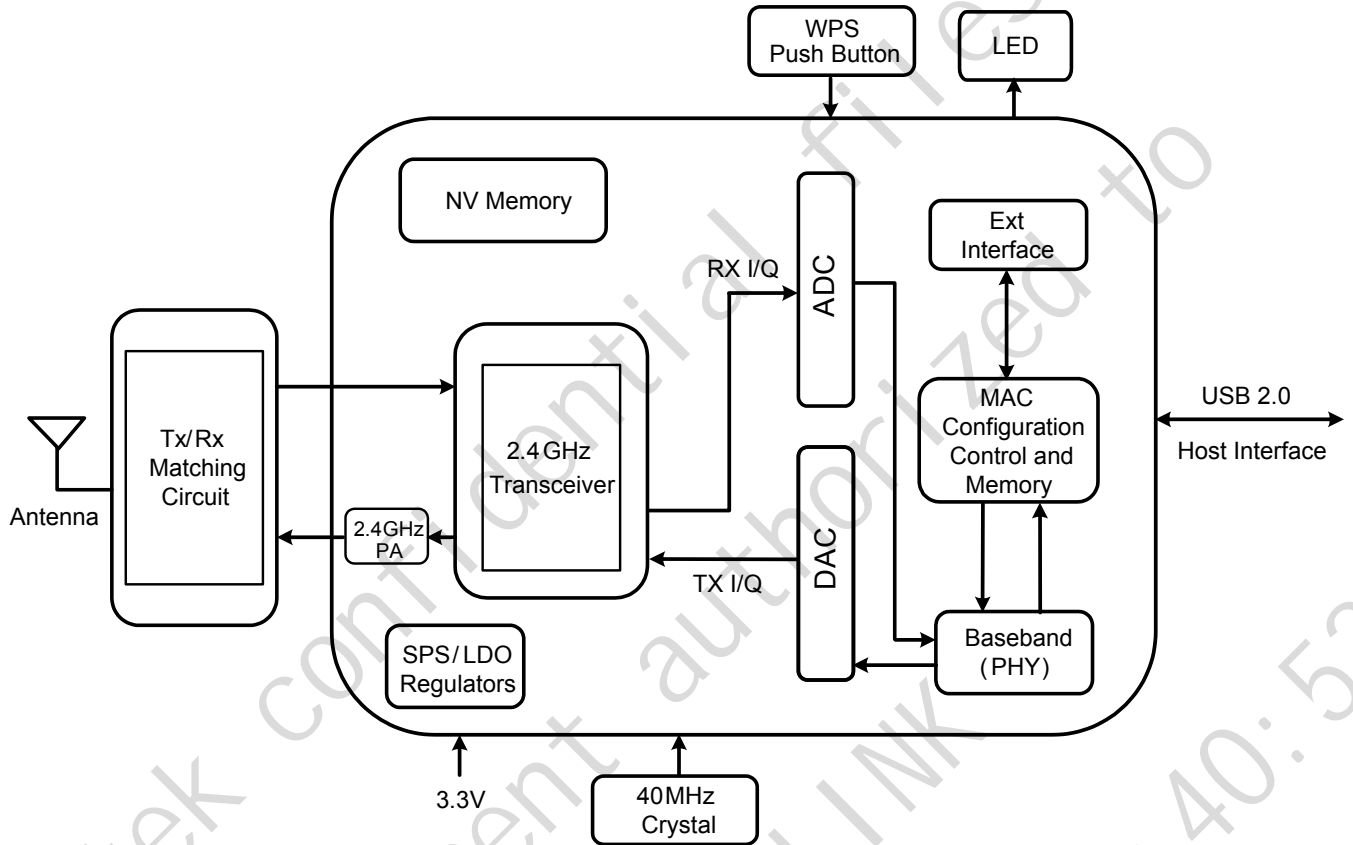


Figure 1. Single-Band 11n (1x1) Solution (11n 1x1 MAC/BB/RF+PA)