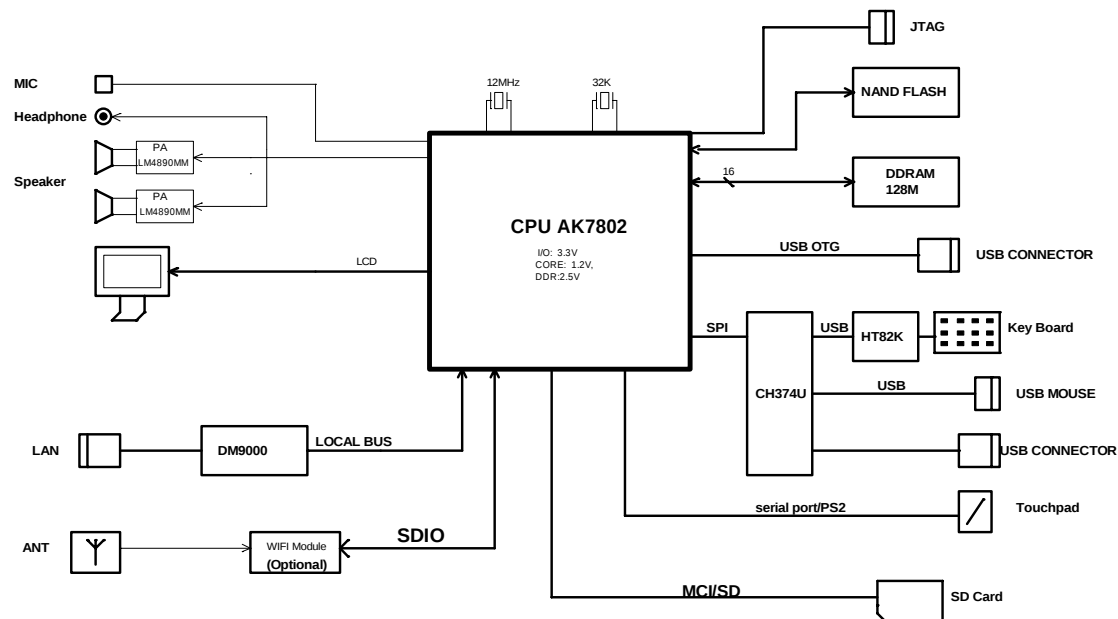


1. Block diagram



2. Main IC description

UMPC9901 adopted U7802T of ANYKA.
IC Block diagram:

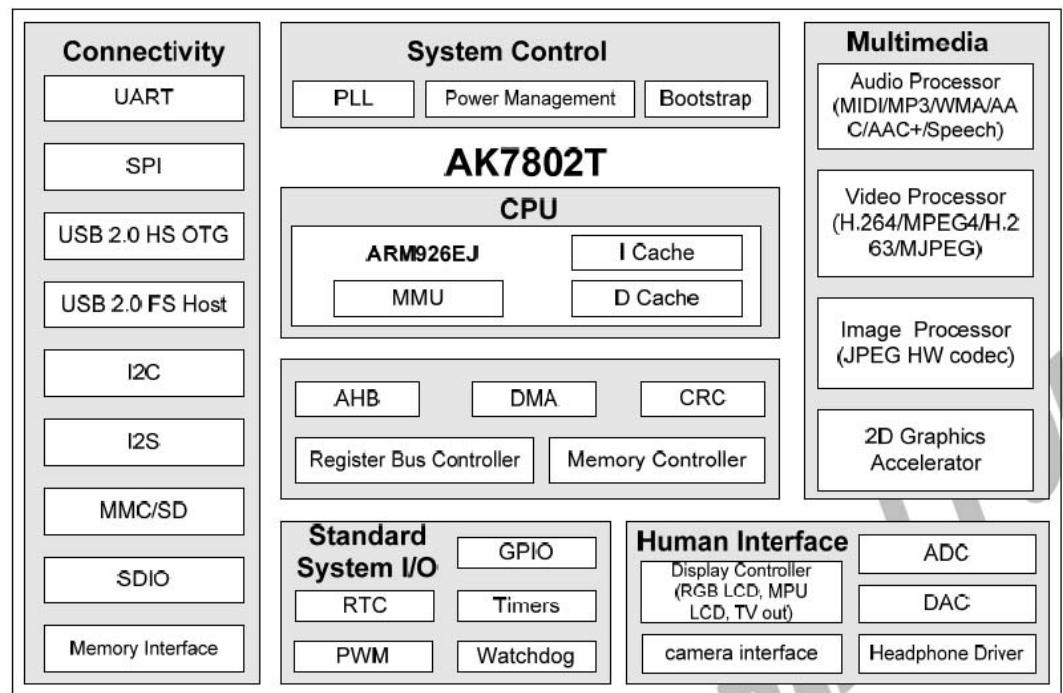


Figure 1-1 AK7802T Functional Block Diagram

IC Basic function description :

1. ARM926EJ CORE, 16KB I CACHE & 16KB D CACHE
2. 250MHZ CPU CLK & 125MHZ SYETEM OPERATING FREQUENCY.
3. SUPPORT 64MB DDRI.
4. EMBEDDED AUDIO PROCESSOR WITH REAL-TIME AMR CODEC/MP3 DECODER/WMA DECODER/64 TONE MIDI SYNTHESIZER/AAC DECODER/AAC+ DECODER, SUPPORT AUDIO STREAM IN PCM/ADPCM FORMAT.
5. IMAGE PROCESSOR, HARDWARE JPEG CODEC.
6. MJPEG CODEC ACCELERATOR
7. H.263 CODEC
8. H.264 DECODER
9. MPEG4-SP LEVEL0,1,2,3 CODEC
10. 2D GRAPHICS ACCELERATOR.
- 11.CCIR601/CCIR 656 CMOS IMAGE SENSOR INTERFACE WITH PROGRAMMABLE IMAGE SIZE AND SMART SCALING CAPABILITY
12. SOFTWARE I2C
13. DUAL 8 bit/9 bit/16 bit/18 bit MPU, 8 bit/9 bit/16 bit/18 bit RGB LCD display with programmable LCD size.
14. TV out interface

15. three ADCs for voice/music recording, touch panel & battery measurement.

16. two sigma-delta DACs for stereo driver

17. built in headphone driver.

18. master/slave I2S interface.

19. UART, SPI, MMC/SD, SDIO interface..

20. USB2.0 OTG & FS HOST

21. ON CHIP PLL & 32.768K RTC

22. four bootstrap modes, boot code saved in 32KB ROM

3. WIFI Module

Frequency range: 2.4GHz ISM Bands, support 802.11 b/g

Module: 802.11g: OFDM

802.11B, CCK(11.5Mbps). DQPSK(2Mbps), DBPSK(1Mbps)

4. Power supply

Battery :

3 cell 8.4V 1800mAh

Block

