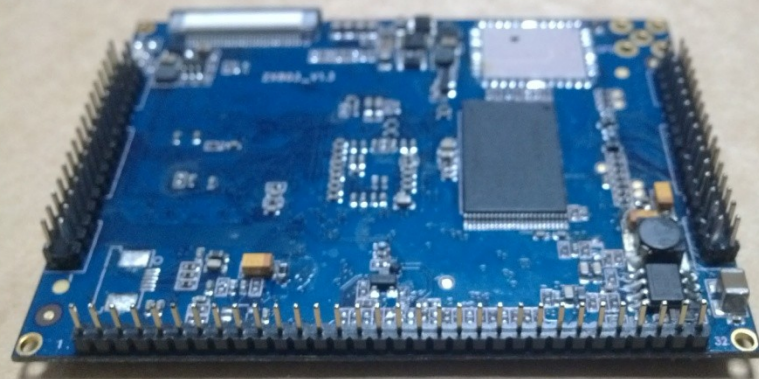
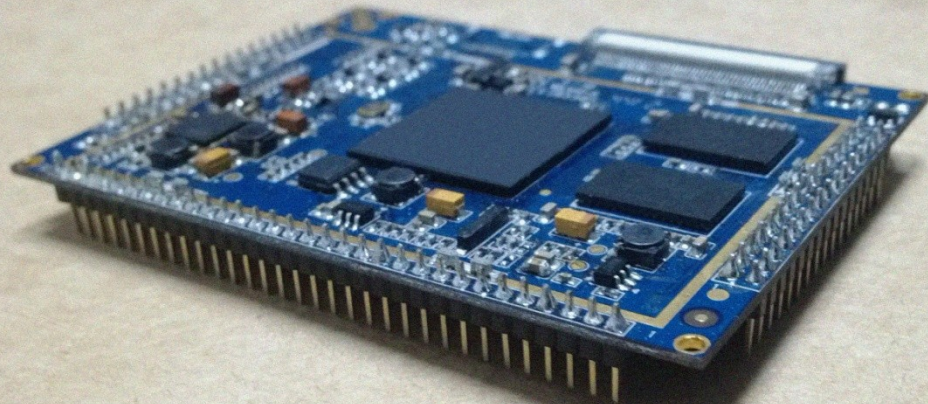




KiwiBoard for Makers

Android + Open Hardware



What's KiwiBoard

An open hardware runs Android 4.0

UART, GPIO, ADC, PWM for sensors and extensions

USB WIFI, USB 3G for Internet connections

USB Camera for video recording

USB memory, SD card and internal flash for more data storage

USB Mouse, Keyboard for easy testing and debugging

VGA/HDMI/LCD for GUI display

MIC for voice input

ARM Cortex A8 core

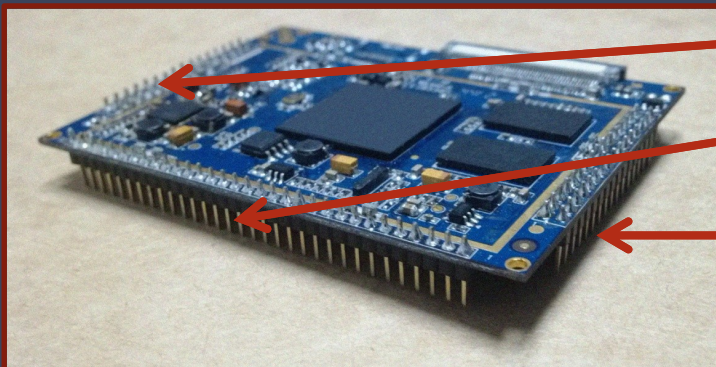
1080P video decoding



Ideally for Maker to build high-end robot, connected devices
Esp. when Arduino cannot meet requirements
Standard developing tools of Android

Outlook

Size: 76mm*55mm



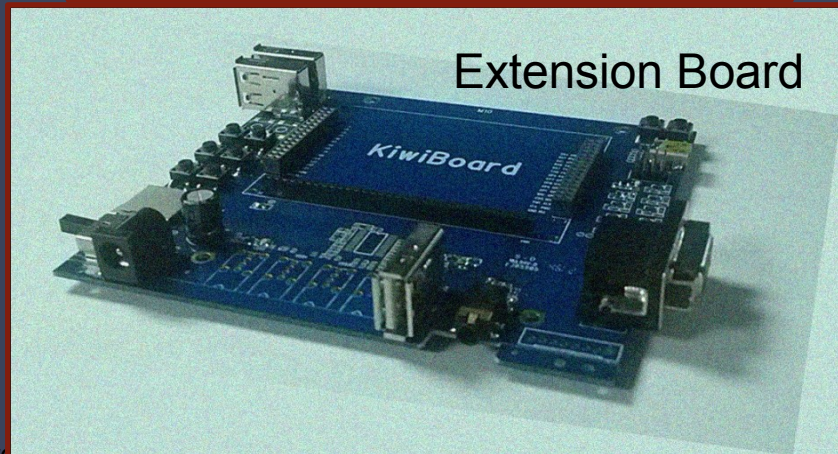
Interface Group 1: 16*2 PIN

Interface Group 2: 32 PIN

Interface Group 3: 16*2 PIN

PIN distance: 2.0mm

Extension Board



back view



Interfaces

12V power input
5V 3.3V power output

GPIO – 10
ADC – 2
PWM – 2
AUDIO_OUT – Stereo
AUDIO_IN – 2
UART – 4
SPI – 1

VGA - 1
HDMI/LCD: connector

SD Card: 1
USB HOST – 2
USB DEVICE – 1

Ready devices

Works for standard Android Java Applications

On Board:

- VGA output PINs
- Speaker Stereo
- MIC for voice record, speech recognition
- GPS(Ready, HW Optional)

USB Host devices

- USB hard disk/memory stick
- USB Keyboard, mouse(HID)
- USB Camera

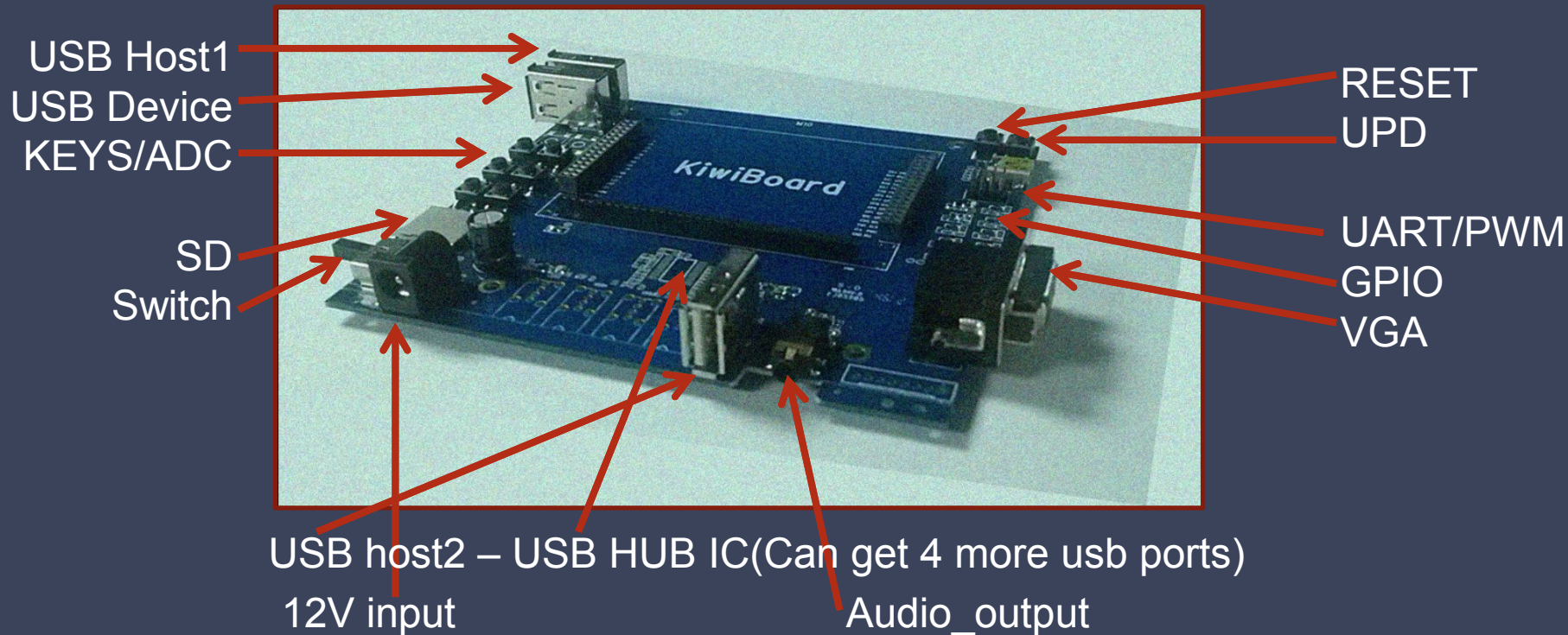
Internet Connections

- USB wifi
- USB 3G+ dongle
- USB Ethernet

Works for Android Java Application via JNI
or NDK C/C++ program

- UART
- GPIO
- ADC
- PWM

Easy Start Extension Board



Software Development tools

Android SDK

<http://developer.android.com/sdk/index.html>

Android NDK

<http://developer.android.com/tools/sdk/ndk/index.html>

Python for Android

<http://python-for-android.readthedocs.org/en/latest/>

DDMS

<http://developer.android.com/tools/debugging/ddms.html>

ADB

<http://developer.android.com/tools/help/adb.html>

Training

<http://developer.android.com/training/index.html>



KiwiBoard

Open Hardware with Android

www.kiwiboard.org

