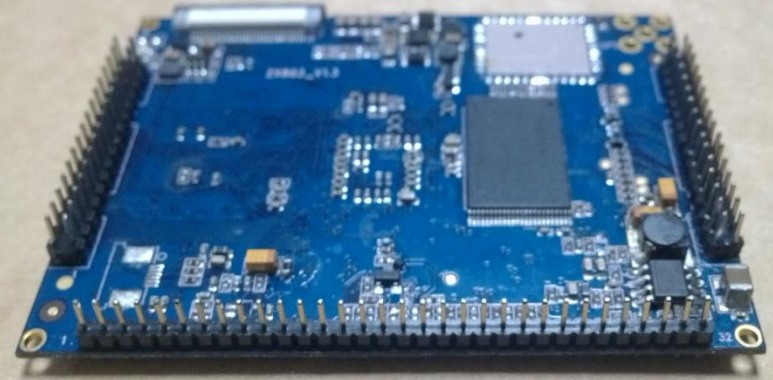




KiwiBoard for Makers

Power of Android and Arduino



What's KiwiBoard

Android 4.0 + Arduino compatible control software

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(Optional HDMI/LCD) for GUI display

MIC for voice input

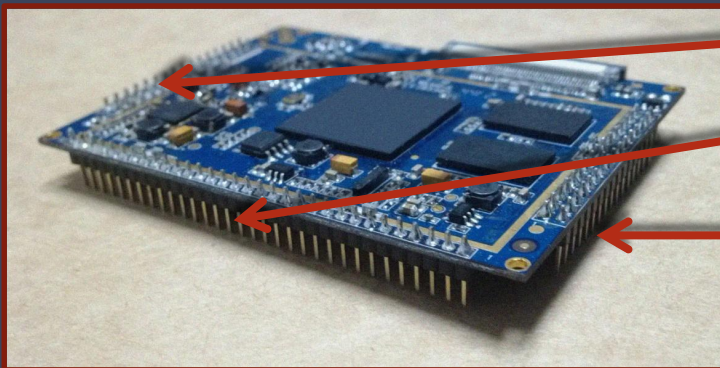
ARM Cortex A8 core

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



Interface Group 1: 16*2 PIN

Interface Group 2: 32 PIN

Interface Group 3: 16*2 PIN

PIN distance: 2.0mm



Size: 76mm*55mm

Smaller than a credit card

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

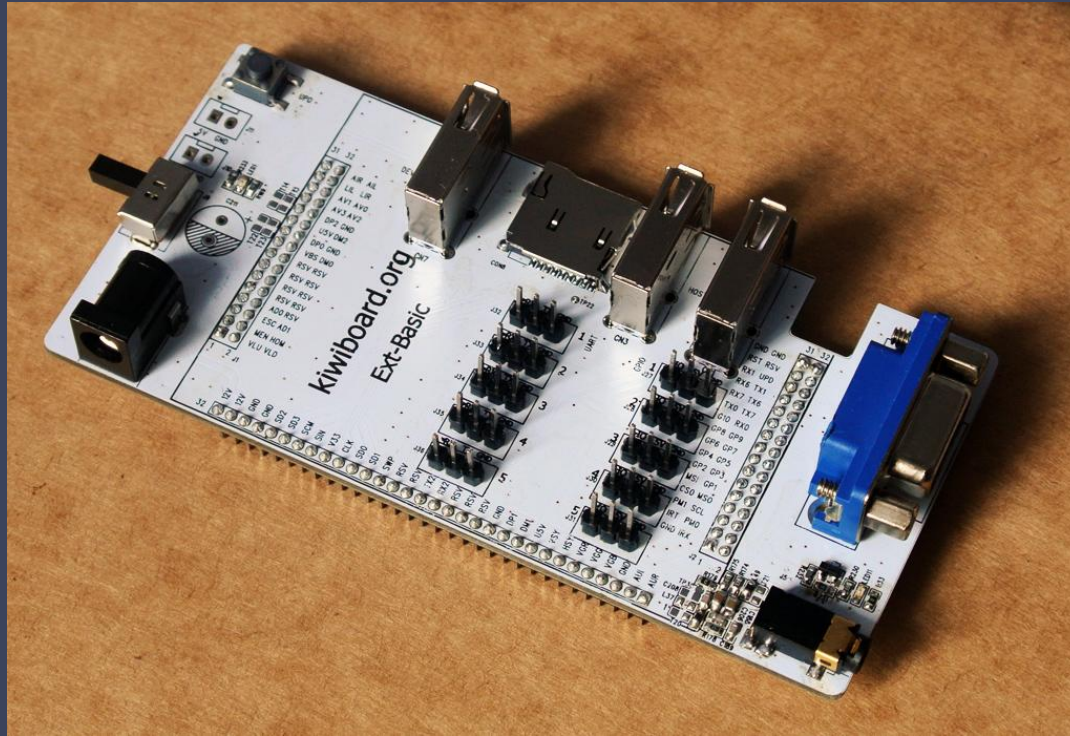
UART

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

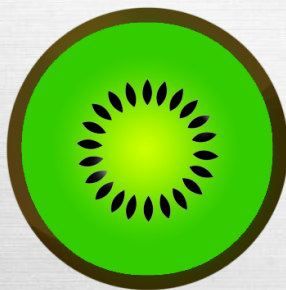
<http://developer.android.com/tools/debugging/ddms.html>

ADB

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

Training

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



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www.kiwiboard.org