UDOO DUAL & QUAD

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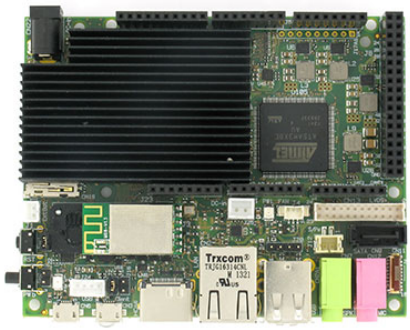
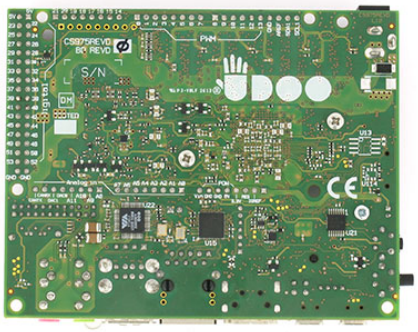




SUMMARY

UDOO is a multi development platform solution for Android, Linux, Arduino™ and Google ADK 2012. The board is designed to provide a flexible environment that allows to explore the new frontiers of the Internet of Things. UDOO allows you to switch between Linux and Android in a few seconds, simply by replacing the Micro SD card and rebooting the system.
UDOO is compatible with all the sketches, tutorials and resources available on the Arduino community as well as all the shields, sensors and actuators for Arduino DUE available on the market.

Warning: UDOO I/O pins are 3.3V only compliant. Providing shields with higher voltage, like 5V, could damage the board. Use only shields Arduino DUE compatible (3.3V).

UDOO Starting Manual: http://udoo.org/download/files/Documents/UDOO_Starting_Manual_beta0.4_11_28_2013.pdf (http://cdn.udoo.org/wp-content/uploads/2013/03/UDOO_Starting_Manual_beta0.4_11_28_2013.pdf)

Schematics: http://udoo.org/download/files/schematics/UDOO_REV_D_schematics.pdf (http://cdn.udoo.org/wp-content/uploads/2013/03/UDOO_REV_D_schematics.pdf)

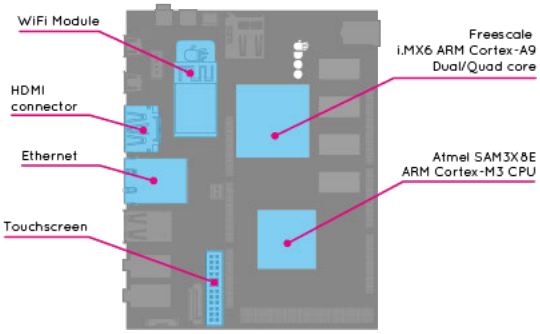
UDOO Pinout: http://udoo.org/download/files/pinout/Udoo_pinout_diagram.pdf (http://cdn.udoo.org/wp-content/uploads/2013/03/Udoo_pinout_diagram.pdf)

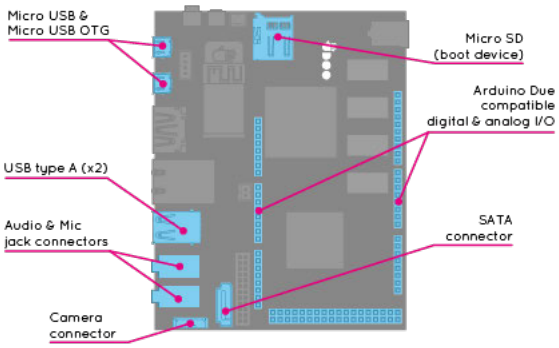
Datasheet: http://www.seco.com/misk/UDOO_datasheet.pdf (http://cdn.udoo.org/wp-content/uploads/2013/03/UDOO_datasheet.pdf)

Specs

- Freescale i.MX6Quad, 2\4 x ARM® Cortex™-A9 core @ 1GHz with ARMv7A instruction set
- GPU Vivante GC 2000 for 3D + Vivante GC 355 for 2D (vector graphics) +
- Vivante GC 320 for 2D
- Atmel SAM3X8E ARM Cortex-M3 CPU (same as Arduino Due)
- RAM DDR3 1GB
- 76 fully available GPIO with Arduino compatible R3 1.0 pinout
- HDMI and LVDS + Touch
- 2 Micro USB (1 OTG)
- 2 USB 2.0 type A and 1 USB 2.0 internal pin header (requires adapter cable)
- Analog Audio and Mic jacks
- CSI Camera Connection
- On board Micro SD card reader (boot device)
- Power Supply (6-15V) and External Battery connector
- Ethernet RJ45 (10/100/1000 MBit)
- WiFi Module
- SATA connector with power header

Warning: The UDOO I/O pins are 3.3V compliant. Higher voltages (like 5V) would damage the board.





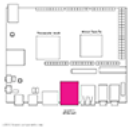
Size

Very small sized board 4.33 inch x 3.35 inch (11cm x 8.5cm)

i.MX6/SAM3X8E

Double processor ARM i.MX6 CPU Quad/Dual core 1GHz + ARM SAM3X8E Atmel

Gigabit Ethernet



Fast ethernet technology: Gigabit Ethernet at 1.000 Mbit/s

AVAILABLE SOFTWARE

UDOObuntu

UDOObuntu, the official Operating System for UDOO, has been designed with 2 goals in mind: speed and user friendly. This new OS is armHF which means it has hard floats hardware support out of the box, even for the Arduino libraries.

Specs

- Based on Lubuntu 12.04 armHF with LXDE
- Arduino IDE v1.5.8
- UDOO Configuration Tool
- Serial library Examples for C, Java, Python, PHP and NodeJS
- Remote Desktop service (VNC)
- Open CV with Examples for C, Java, Python
- Development IDEs: Scratch, Code Blocks, Bluefish
- Audio Dev Tools: Pure Data, JackControl

Android

UDOO runs Android 4.4.2 including all the features of an Android device. With Arduino-compatible Embedded you have the possibility to use the Accessory Development Kit (ADK) 2012 and connect digital and analog sensors and actuators to Android.

Specs

Based on AOSP distro

Root permission (Powered by SuperSu)

- TSCalibration App/li>
- Bluetooth (kickstarter dongle)
- Internal usbotg managment
- Ethernet manager app
- File Manager
- Audio HDMI or onboard
- GAPPs installation allowed
- ADB wireless app