“UDO0 takes your DIY projects to the next level; it's a powerful tool for education and creativity.”

UDO0 is an open hardware, low-cost single-board Android/Linux ARM computer with Arduino Due compatible integration.

All-in-one solution!

UDO0 Dual Basic
UDO0 Dual
UDO0 Quad

Starting from $99
DESCRIPTION

UDDOΩ is an open hardware, low-cost computer equipped with an ARM™ i.LMX6 NXP™ processor for Android™ and Linux™, alongside an Arduino Due ARM SAM3X8E. Both CPUs are integrated on the same board.

Ideal for prototyping applications requiring multimedia capabilities and/or high levels of parallel computing, maintaining the advantages offered by low power consuming ARM Processors.

TECHNICAL SPECIFICATION

Processor
- NXP™ i.LMX6 ARM Cortex-A9 CPU Dual/Quad core 1GHz
- Atmel SAM3X8E ARM Cortex-M3 CPU (same as Arduino Due)
- Dual Core CPU is Dual Lite version, with only one Image Processing Unit (CPU) and without the SATA interface

Memory
- Low Voltage 1GB DDR3

Graphics
- Integrated graphics, each processor provides 2 separated accelerators
- for 2D, OpenGL® ES 3.0 3D and OpenVG® (only Quad Core Version)

Video out
- HDMI interface (up to 1080p)
- 8/24 bit LVDS interface (up to 1920 x 1080) + Touch (I2C signals)

Video in
- Camera connection on MIMI CSI

Mass Memory
- SATA (only Quad-Core version)
- SD card slot onboard

Network Interfaces
- Gigabit Ethernet LAN (10/100/1000 Mbps)
- Optional WiFi Module

Audio
- Headphone and Microphone stereo 3.5 mm jacks

USB
- 1 x USB OTG (micro-A connector)
- 1 x USB 2.0 internal pin header (requires adapter cable)
- 2 x USB 2.0 Type A ports
- 1 x USB to Serial interface (micro-B connector)

Dimension
- 100mm x 85mm (4.33 inch x 3.35 inch)

ARDUINO® PINOUT

UDDOΩ is Arduino Compatible and features the standard Arduino® R3 layout (10 pins). Thanks to this, UDDOΩ is fully compatible with Arduino™ shields.

Digital I/O Pins
- 76 fully available GPIO

Analog Input Pins
- 16

Analog Output Pins
- 8 (DAC)

Shared Pins
- The 76 digital communications pins are shared between the two processors. They can be switched individually as input or output via software mixing

OPERATING SYSTEMS

Android Marshmallow 6.0.1
- Linux UDDOUbuntu2 (Ubuntu 14.04)

*Please note that like the Arduino Due, UDDOΩ runs at 3.3V, and the maximum voltage that the I/O pins can handle is 3.3V.

www.udoo.org
info@udoo.org