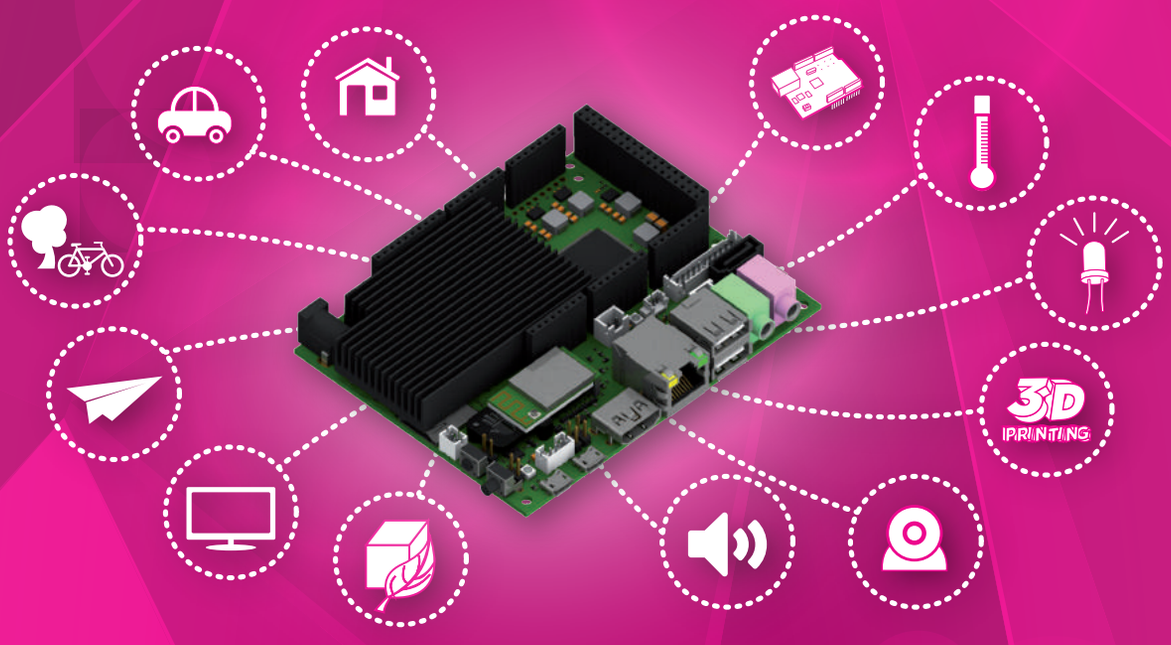
UDOO

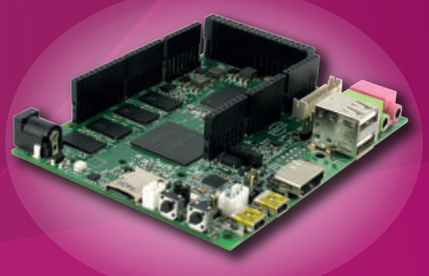
"UDOO takes your **DIY projects** to the next level;
it's a **powerful tool** for **education and creativity**"



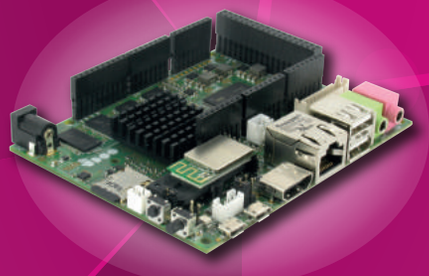
UDOO is an open hardware, low-cost single-board Android/Linux ARM computer with Arduino Due compatible integration.

All-in-one solution!

UDOO
Dual Basic



UDOO
Dual



UDOO
Quad

Starting from **$99**

EXPLORE LEARN MAKE

Android/Linux +

Arduino-compatible embedded

www.udoo.org

DESCRIPTION

UDOO® is an open hardware, low-cost computer equipped with an ARM® i.MX6 NXP™ processor for Android™ and Linux®, alongside an Arduino™ Due ARM SAM3X. 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.MX6 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 (IPU) and without the SATA interface

Memory
Low Voltage 1GB DDR3

Graphics
Integrated graphics: each processor provides 3 separated accelerators for 2D, OpenGL® ES2.0 3D and OpenVG™ (only Quad-Core Version)

Video out
HDMI interface (up to 1080p)
18/24 bit LVDS interface (up to 1920x1200) + Touch (I2C signals)

Video in
Camera connection MIPI* CSI

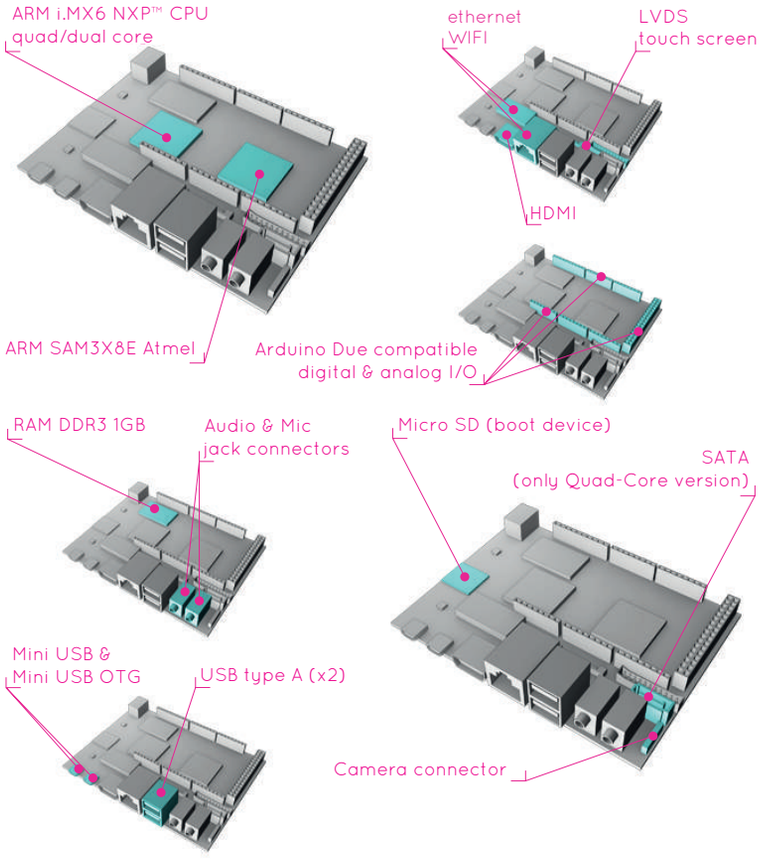
Mass Memory
SATA (only Quad-Core version)
SD card slot onboard

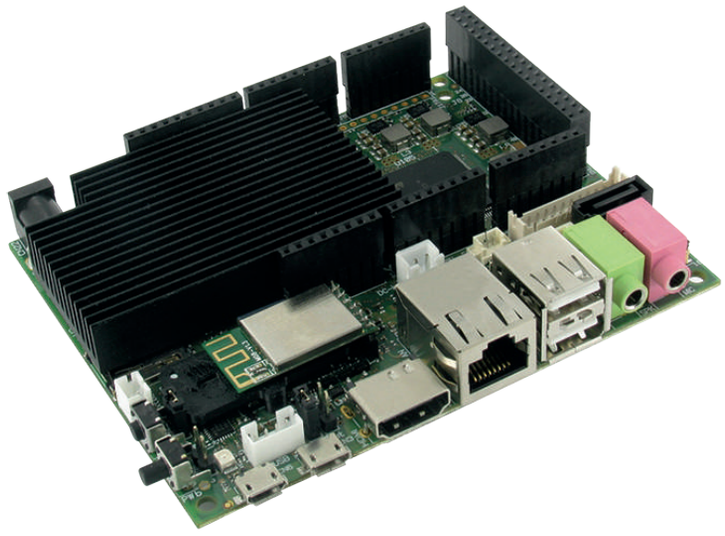
Network Interfaces
Gigabit Ethernet RJ45 (10/100/1000 Mbps)
Optional WiFi Module

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
110mm x 85mm (4.33 inch x 3.35 inch)





ARDUINO™ PINOUT

UDOO® is Arduino-Compatible and features the standard Arduino™ R3 layout (1.0 pinout). Thanks to this, UDOO is fully compatible with Arduino™ shields*

Digital I/O Pins
76 fully available GPIOs

Analog Input Pins
12

Analog Output Pins
2 (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 muxing

OPERATING SYSTEMS

Android Marshmallow 6.0.1
Linux UDOObuntu2 (Ubuntu 14.04)

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

Information subject to change. Please visit www.udoo.org to find the latest version of the datasheet.

23.02.2017