UDOO
NEO

Made for **sensing** the world

Born to be **wireless**
Wi-Fi 802.11 b/g/n
Bluetooth 4.0

Accelerometer
Gyroscope
Magnetometer

A9
M4

Powerful 1GHz **Cortex-A9**
+ M4 I/O realtime
co-processor

Credit-card sized
low power consumption board
56x68,6mm (2.2" x 2.7")

Arduino, Linux & Android in your pocket.
The wireless Internet of Things playground

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1. LEARN
easily as with
an Arduino

2. EXPLORE
the most flexible
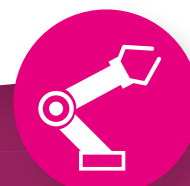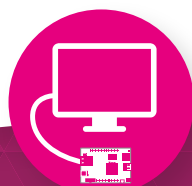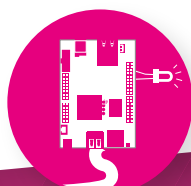development environments

3. INTERACT
with the
physical world

- Learn with Arduino tutorials and educational material
- Include Arduino sketches and Libraries
- Use Arduino shields

- C/C++
- Python
- Php/LAMP
- Java
- Android Programming
- OpenCV
- PureData

- Rover
- Drones
- Smart appliances
- Domotics
- Robotics
- Wireless sensors
- Android smart objects

NEO

UDOO™ NEO is an **open hardware low-cost computer** equipped with a Freescale™ i.MX 6SoloX applications processor for Android and Linux.
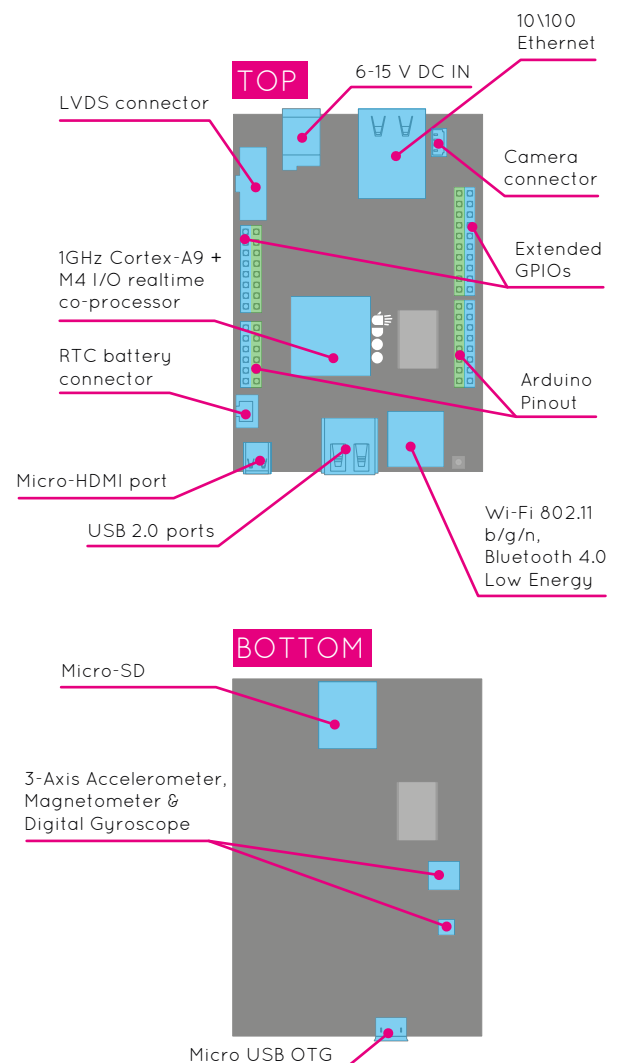
The processor embeds an ARM® Cortex-M4 microcontroller which makes the board compatible with the Arduino™ environment allowing **high performance** at a **low price**.

Ideal as a central element of more comprehensive projects, it easily enables the creation of a multitude of IoT applications, making the **UDOO NEO** even **more innovative and appealing**.

FEATURES

	Processor	Freescale™ i.MX 6SoloX applications processor with an embedded **ARM Cortex-A9 core and a Cortex-M4 Core**
	Memory	512MB or 1GB DDR3 (only Plus version).
	Graphics	Integrated 2d/3d graphics controller
	Video Out	HDMI interface LVDS interface + touch (I2C signals)
	Video In	Analog camera connection supporting NTSC and PAL 8-bit parallel camera interface*
	Mass Storage	NOR SPI Flash onboard MicroSD card slot onboard 8-bit SDIO interface*
	Audio	HDMI audio transmitter
	USB	1x USB 2.0 Type A ports 1x USB OTG (micro-AB connector)
	Networking	Fast ethernet RJ45 (10/100Mbps) **Wi-Fi 802.11 b/g/n, Bluetooth 4.0 Low Energy** Wi-Fi Direct Mode SmartConfig
	Serial Ports	3x UART ports* 2x CAN Bus interfaces*
	Other Interfaces	**8x PWM signals*** 1x I2C interface* 1x SPI interface* **6x multiplexable signals***
	Power Supply	5 V DC Micro USB 6-15 V DC Power Jack Coin Cell RTC Battery Connector
	LEDs	Green Power Status LED User Configurable Red LED
	Integrated Sensors	**3-Axis Accelerometer** **3-Axis Magnetometer** **3-Axis Digital Gyroscope**
	Dimensions	56mm x68.6mm (2.2" x 2.7")
	Arduino Pinout	**Arduino-Compatible** through the standard Arduino Pins layout and compatible with Arduino shields.
	Digital I/O Pins	36 available GPIOs
	Analog Input Pins	6
	Operating System	Android & Linux

*Available on Pin Header

TOP

LVDS connector
6-15 V DC IN
10\100 Ethernet
Camera connector
1GHz Cortex-A9 + M4 I/O realtime co-processor
Extended GPIOs
RTC battery connector
Arduino Pinout
Micro-HDMI port
USB 2.0 ports
Wi-Fi 802.11 b/g/n, Bluetooth 4.0 Low Energy

BOTTOM

Micro-SD
3-Axis Accelerometer, Magnetometer & Digital Gyroscope
Micro USB OTG