



NEO

“ UDOO Neo  
The new Internet of  
Things platform ”



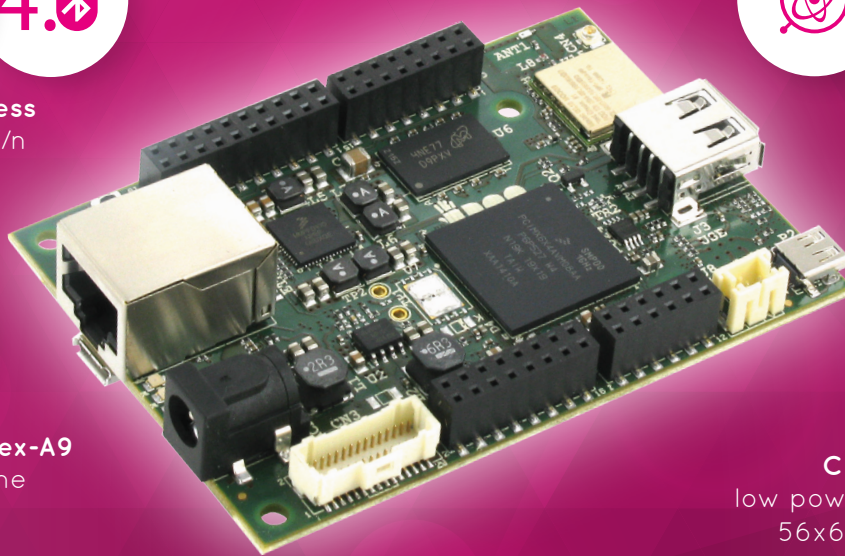
Born to be **wireless**  
Wi-Fi 802.11 b/g/n  
Bluetooth 4.0



Made for **sensing** the world  
Accelerometer  
Gyroscope  
Magnetometer



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 



**1. LEARN**  
easily as with  
an Arduino



**2. EXPLORE**  
the most flexible  
development environments

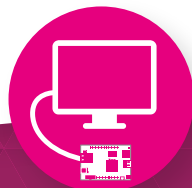
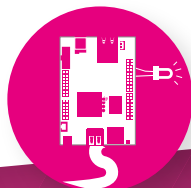


**3. INTERACT**  
with the  
physical world

- 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





**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

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

Information subject to change. Please visit [www.udoo.org](http://www.udoo.org) to find the latest version of the datasheet.

\*Available on Pin Header

