UDOO NEO

THE NEW IoT PLATFORM

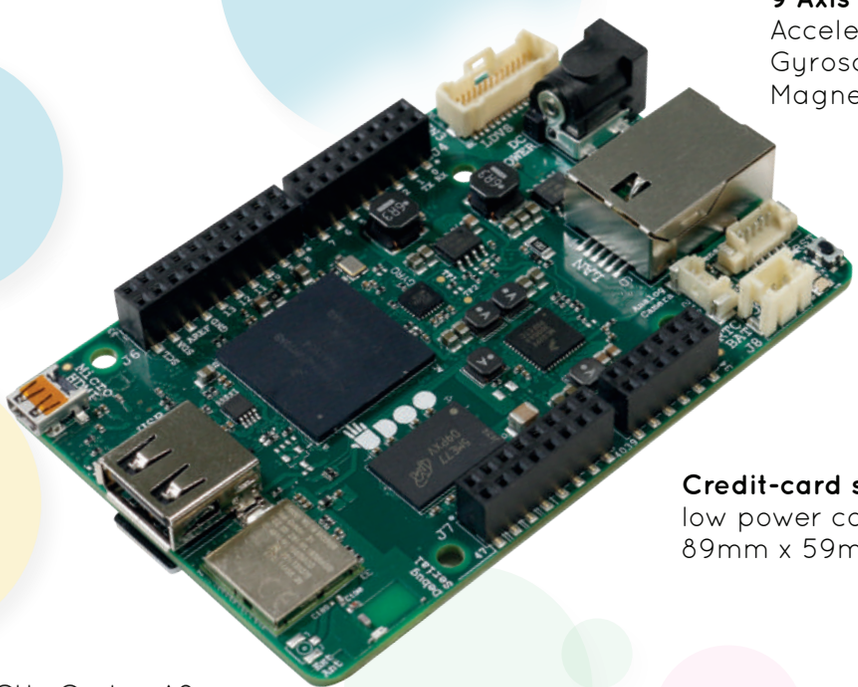
www.udoo.org

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

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

4.0

9 Axis sensors
Accelerometer
Gyroscope
Magnetometer

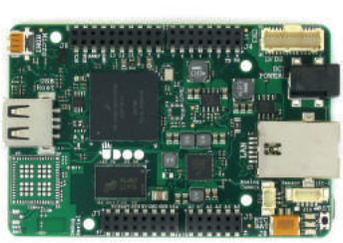


Powerful 1GHz Cortex-A9
+ M4 I/O realtime
co-processor

Credit-card sized
low power consumption board
89mm x 59mm (3.50'' x 2.32'')

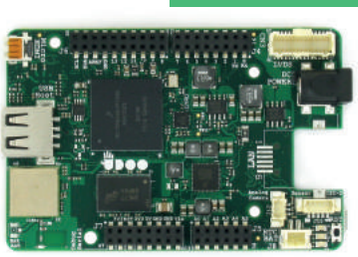
STARTING FROM $49.90

UDOO BASIC



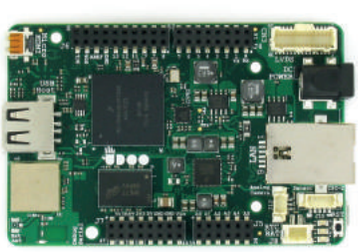
- 512 RAM
- Ethernet

UDOO EXTENDED



- 1Gb RAM
- Wi-Fi/Bluetooth
- Motion Sensors

UDOO FULL



- 1Gb RAM
- Wi-Fi/Bluetooth
- Motion Sensors
- Ethernet

NEO

UDOO® NEO is an all-in-one open hardware low-cost computer, equipped with a NXP i.MX 6SoloX applications processor for Android® and Linux®

UDOO®Neo embeds two cores on the same processor: a powerful 1GHz ARM® Cortex-A9, and up to a 200MHz Cortex-M4 I/O real-time co-processor.

While the Cortex-A9 can run both Android Lollipop and UDOObuntu 2, a dedicated Ubuntu-based Linux distro, the Cortex-M4 allows easy access to a full-stack Arduino® environment. The snap-in connector ensures a plug-and-play interaction with most sensors and actuators.

Thanks to its embedded 9-axis motion sensors and Wi-Fi + Bluetooth 4.0 module, the board is ideal to create robots, drones and rovers as well as any Mobile IoT project your imagination desires.

FEATURES

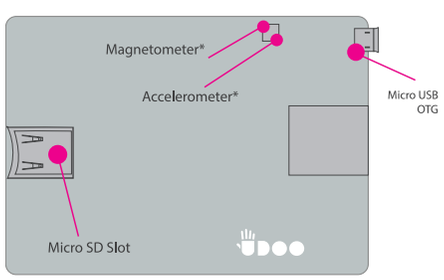
Processor	NXP i.MX 6SoloX applications processor with an embedded **ARM Cortex-A9 core and a Cortex-M4 Core**
Memory	DDR3 512MB (Basic) or 1GB (Extended and Full)
Graphics	Vivante GC420 Integrated 2D/3D graphics accelerator
Video Out	1x Micro HDMI Interface 1x LVDS interface + touch (I2C signals)
Video In	1x Analog camera connection supporting NTSC and PAL 1x 8-bit Digital camera interface*
Mass Storage	MicroSD card slot onboard 8-bit SDIO interface*
Audio	HDMI audio transmitter 1x S/PIDF & I2S*
USB	1x USB 2.0 Type A ports 1x USB OTG (micro-AB connector)
Networking	Fast ethernet RJ45 10/100Mbps (only Basic and Full) **Wi-Fi 802.11 b/g/n** Direct Mode SmartConfig **and Bluetooth 4.0 Low Energy** (only Extended and Full)
Serial Ports	3x UART ports* 2x CAN Bus interfaces*
Other Interfaces	**8x PWM signals*** 3x I2C interface* 1x SPI interface* **6x multiplexable signals***
Power Supply	1x DC Micro USB 5 V 1x DC Power Jack 6-15 V 1x RTC Battery Connector
LEDs	1x Green Power Status LED 2x User Configurable LEDs (Red and Orange)
Integrated Sensors	**3-Axis Accelerometer** (only Extended and Full) **3-Axis Magnetometer** (only Extended and Full) **3-Axis Digital Gyroscope** (only Extended and Full) **1x Sensors Snap-in I2C connector**
Dimensions	89mm x 59mm (3.50 inch x 2.32 inch)
Arduino Pinout	**Arduino-compatible** through the standard Arduino Uno layout and compatible with Arduino shields.
Digital I/O Pins	32 extended GPIOs (A9 dedicated) 22 Arduino GPIOs (M4 dedicated)
Analog Input Pins	6 available Pins
Operating System	Android Marshmallow 6.0.1 Linux UDOObuntu2 (14.04 LTS)

*Available on Pin Header

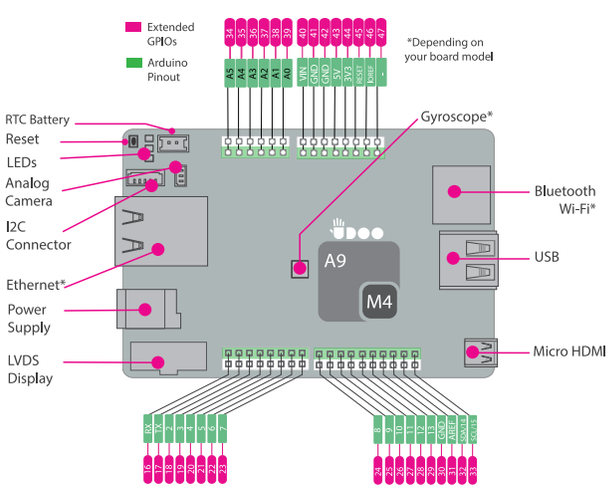
23.02.2017

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

BOTTOM



TOP



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