



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NEO

THE NEW IoT PLATFORM

www.udoo.org



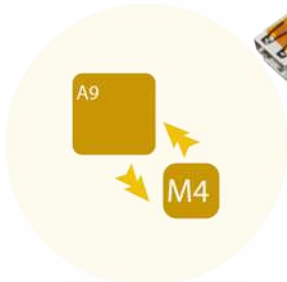
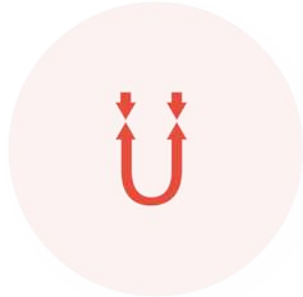
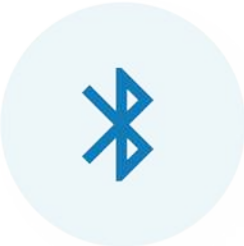
Arduino, Linux & Android in your pocket.
The wireless Internet of Things playground.



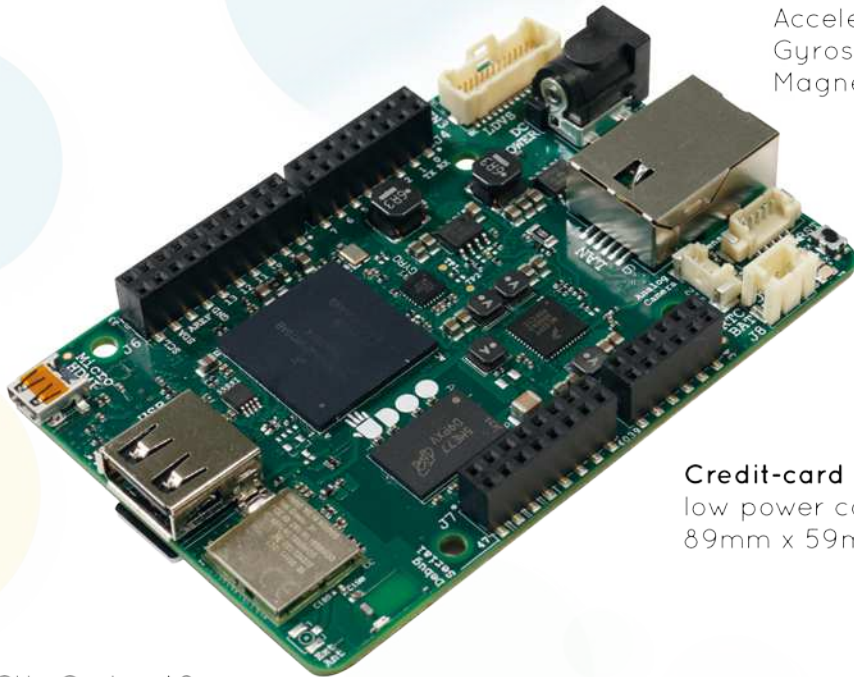
Born to be wireless
Wi-Fi 802.11 b/g/n
Bluetooth 4.0 BLE



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



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.

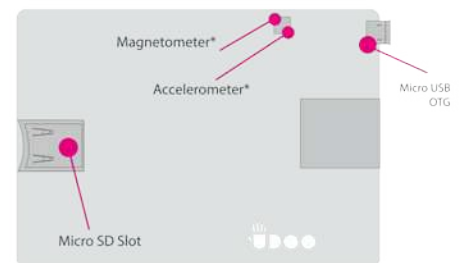
FEATURES	
	Processor NXP i.MX 6SoloX applications processor with an embedded ARM Cortex-A9 core and a Cortex-M4 Core
	Memory DDR3 512MB (Basic) or 1GB (Extended and Full)
	Graphics Vivante GC420 Integrated 2D/3D graphics accelerator
	Video Out 1x Micro HDMI Interface 1x LVDS interface + touch (I2C signals)
	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

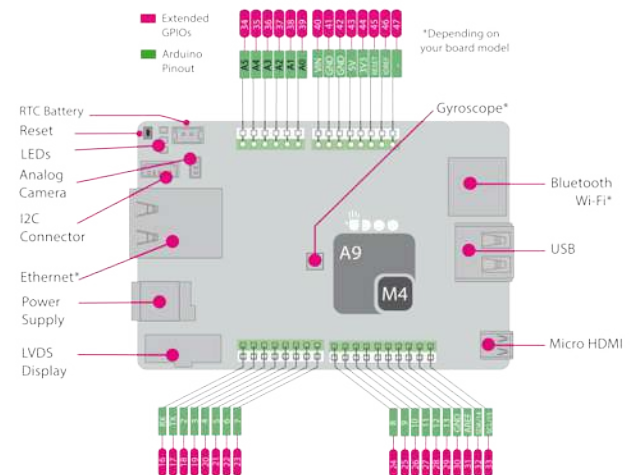
18.10.2016

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

BOTTOM



TOP



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