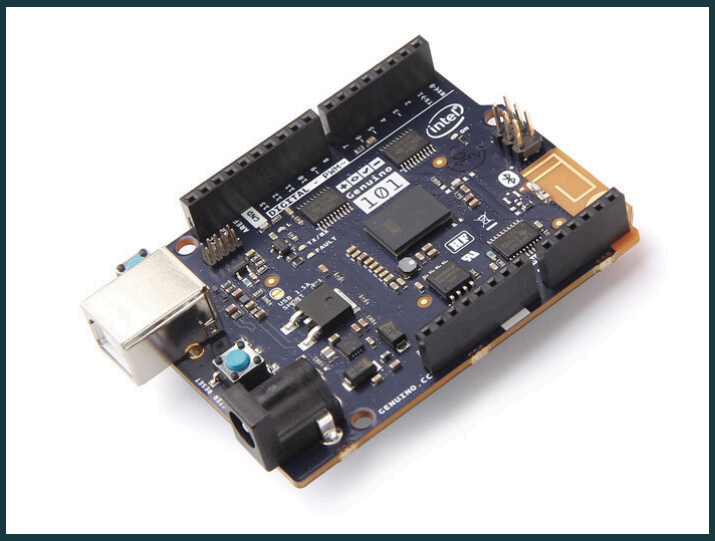
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Genuino 101

Genuino 101: Arduino simplicity meets Intel® Curie™ performance with Bluetooth LE and integrated motion sensing.

SKU	UPDATED	PRICE
114990575	2024-08-09 01:54:45	$30.00(Excl. VAT)



Overview



The Genuino 101 is an entry-level learning and development board that combines the Intel® Curie™ Module's performance and low-power consumption with Arduino's ease-of-use. It features Bluetooth LE connectivity, a six-axis accelerometer and gyroscope for gesture recognition, and 14 digital I/O pins (4 PWM) with 5V-tolerant 3.3V I/O.

Key Features

Genuino 101 is a learning and development board that delivers the performance and low-power consumption of the Intel® Curie™ Module with the simplicity of Arduino at an entry-level price.

It combines the ease-of-use of the classic boards with the latest technologies. The board recognises gestures, and features a six-axis accelerometer and gyroscope. Control your projects with your phone over Bluetooth connectivity!

The module contains two tiny cores, an x86 (Quark) and a 32-bit ARC architecture core, both clocked at 32MHz. The Intel toolchain compiles your Arduino sketches optimally across both cores to accomplish the most demanding tasks.

The Real-Time Operating Systems (RTOS) and framework developed by Intel is scheduled to be open sourced in March 2016. Until then, it's not possible to interface with it directly; only the Arduino core can do it via static mailboxes, so it can only accomplish a predefined list of tasks (interface with PC using USB, program the sketch into flash, expose Bluetooth LE functionality to sketch, perform PWM). The RTOS for Intel Curie is still under development and new functions and features will be released in the near future.

The 101 comes with 14 digital input/output pins (of which 4 can be used as PWM outputs), 6 analog inputs, a USB connector for serial communication and sketch upload, a power jack, an ICSP header with SPI signals and I2C dedicated pins.

The board operating voltage and I/O is 3.3V but all pins are protected against 5V overvoltage.

Features

- Microcontroller: Intel® Curie™
- Operating Voltage: 3.3V (5V tolerant I/O)
- Input Voltage (recommended): 7-12V
- Input Voltage (limit): 7-20V
- Digital I/O Pins: 14 (4 provide PWM output)
- PWM Digital I/O Pins: 4
- Analog Input Pins: 6
- DC Current per I/O Pin: 20 mA
- Flash Memory: 196 kB
- SRAM: 24 kB
- Clock Speed: 32MHz
- Bluetooth LE
- 6-axis accelerometer/gyro

Note

- The Genuino 101 is only available for customers outside the US.

Part List

- 1 x Genuino 101

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Compliance & Logistics

HSCODE	8543709990

FCC	1
CE	1

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/Genuino-101-p-2628.html

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