Intel® Edison for Arduino
SKU: 102990162

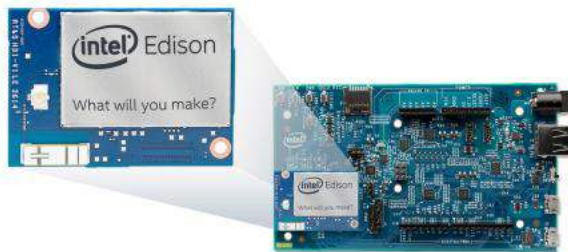(images/product/102990162 15_02.jpg)

WIO LINK is LIVE at Kickstarter!

(https://www.kickstarter.com/projects/seeed/wio-link-3-steps-5-minutes-build-your-iot-applicat/description?ref=banner_depot)

Description

Brief Introduction:

This kit includes an Arduino Breakout, which essentially gives your Edison the ability to interface with Arduino shields or any board with the Arduino footprint.

Dimensions:127mm x 72mm x 12mm

The Intel Edison module is included.

Main Features:

- Uses a 22nm Intel® SoC that includes a dual core, dual threaded Intel® Atom™ CPU at 500MHz and a 32-bit Intel® Quark™ microcontroller at 100 MHz. It supports 40 GPIOs and includes 1GB LPDDR3, 4 GB EMMC, and dual-band WiFi and BTLE on a module slightly larger than a postage stamp.

- The Intel Edison module will initially support development with Arduino* and C/C++, followed by Node.JS, Python, RTOS, and Visual Programming support in the near future.

- It includes a device-to-device and device-to-cloud connectivity framework to enable cross-device

communication and a cloud-based, multi-tenant, time-series analytics service.

- Has an SD card connector, micro USB or standard sized USB host Type-A connector(via mechanical switch), Micro USB device, 6 analog inputs, and 20 ditial input/output pins, 1x UART, 1x I2C, and 1x ICSP 6-pin header (SPI) Power jack with 7V-15V DC input.

Specification:

Physica	
Form factor	Board with 70-pin connector
Dimensions	127.0 x 72.0 x 12.0 mm
Operating temperature	0 to 40 degC
Connector	Hirose DF40 Series (1.5mm, 2.0mm, or 3.0mm stack height)
Memory	
Max Memory size	4GB
Memory type	DDR3, Nand Flash
Physical add. Ext.	32-bit
# of DIMMs	0
ECC Memory supported:	NO
External Interfaces	
Total of 40 GPIOs which can be configured as:	
SD Card	1 Interface
UART	2 Controllers
I2C	2 Controllers
SPI	1 Controller with 2 chip selects
I2S	1 Controller
GPIO	Additional 12 (with 4 capable of PWM)
USB 2.0	1 OTG Controller
Clock Output	32 KHz, 19.2 MHz
Major Edison Components	
SoC	22nm Intel SoC includes: a dual core, dual threaded Intel Atom CPU at 500MHz, and a 32-bit Intel Quark microcontroller at 100 MHz
RAM	1 GB LPDDR3 POP memory
Flash Storage	4 GB eMMC
WiFi	Broadcom 43340 802.11 a/b/g/n Dual-band (2.4 and 5 GHz) On board antenna or external antenna SKU configurations
Bluetooth	BT 4.0
Power	
Input	3.3V – 4.5V
Output	100ma @3.3V and 100ma @ 1.8V
Power	Standby (No radios): 13mW Standby (BT 4.0): 21.5mW Standby (WiFi): 35 mW
Firmware + Software	
CPU OS	Yocto Linux v1.6
Development Environments	Arduino IDE Eclipse supporting: C, C++ & Python Intel XDK supporting: Node.JS & HTML5
MCU OS	RTOS
Development Environments	MCU SDK and IDE