

Intel® Curie™ Module Unveiled at CES

Unleashing a Low-Power Hardware Module for Wearable Devices

Jan. 6, 2015 – Intel today disclosed plans for the Intel® Curie™ module, a tiny hardware product based on the company's first purpose-built SoC for wearable devices: the Intel® Quark™ SE SoC. The Intel Curie module is a complete low-power solution for the wearable space with compute, motion sensor, Bluetooth Low Energy and battery charging capabilities. The module runs on open source RTOS.

About the Intel Curie Module

The Intel Curie module is a highly integrated hardware module that can power a solution the size of a button and will include a Bluetooth Low Energy radio and motion sensors.

The combination of integrated components in the module makes it a first-of-its-kind platform from Intel, in size and flexibility, enabling customers to create smaller devices with long battery life.

The Intel Curie module can enable efficient and intelligent wearable solutions for a broad range of form factors – from rings, bags, bracelets, pendants, fitness trackers to even buttons.

The Intel Curie Module includes:

- Low-power, 32-bit Intel® Quark™ microcontroller
- 384kB flash memory, 80kB SRAM
- Low-power, integrated DSP sensor hub with proprietary pattern matching accelerator
- Bluetooth Low Energy
- 6-axis combo sensor with accelerometer and gyroscope
- Battery charging circuitry (PMIC)

About the Intel Quark SE SoC

Scheduled to ship in the second half of this year in the Intel Curie module, the Intel Quark SE SoC is ideal for “always-on” applications such as social notifications and sports activities. It has been designed from the outset to be very power efficient. It can run for extended periods from a coin-sized battery by leveraging its power-efficient Intel Quark core combined with its dedicated sensor hub processor. In addition, the Intel Quark SE SoC integrates a unique

“In the future, we will see wearable products created by companies that have historically never used silicon before...It’s now up to the ecosystem to innovate with this technology; rings, bags, bracelets, pendants and yes, buttons, will all be possible.”
–Mike Bell





News Fact Sheet

pattern classification engine that allows it to identify different motions and activities quickly and accurately.

To speed the development of wearable products based on the Intel Curie module, Intel is providing a complete software solution that includes a small and efficient real-time operating system (RTOS) together with reference wearable applications called [Intel® IQ Software Kits](#). The kits include the embedded software that runs on the module together with companion smartphone applications and associated cloud capabilities.

Quote: “Last year, we partnered with leading technology, fashion and lifestyle brands to help build a robust wearable ecosystem,” said Mike Bell, vice president and general manager of Intel’s New Devices Group. “With the Intel Curie module, Intel will continue to push the envelope of what’s possible and enable companies to quickly and effectively build low-power wearables in various form factors.”

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