Intel® Curie™ Module

Unleashing a Low-Power Hardware Module for Wearable and Other Consumer and Industrial Edge Devices

Aug. 18, 2015 – Today at the Intel Developer Forum Intel announced new details about the Intel® Curie™ module for wearable devices as well as consumer and industrial edge products.

The announcements include a new Intel software platform created specifically for the Intel Curie module, new reference designs based on the module, and support for the Intel® IQ Software Kits.

About the Intel Curie Module

The Intel® Curie™ module is a tiny hardware product offering design flexibility. The complete, low–power solution comes with compute, motion sensors, Bluetooth Low Energy, battery charging capabilities, and pattern matching capabilities for optimized analysis of sensor data -- enabling quick and easy identification of actions and motions. The module is packaged into a very small form factor and runs a new software platform created specifically for Intel Curie module.

Powered by the Intel Quark™ SE SoC, the Intel Curie module is extremely power efficient and ideal for "always-on" applications such as health and wellness, social notifications, and sports activities. The Intel Quark SE SoC integrates a pattern classification engine that allows it to identify different motions and activities quickly and accurately.

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

Intel also announced plans to create multiple reference designs based on the module that will be available through select ODMs. As example, Intel demonstrated the first reference design for enterprise wearables, which features enterprise grade security and consumer grade usability. The device allows the wearer to authenticate once on a phone or a PC and carry that authentication with them, enabling automatic login when in close proximity.

Intel Software Platform

Created specifically for the Intel Curie Module, the new software platform is an end-to-end solution designed to assist developers by increasing the speed and ease of the development of a wide variety of wearable products.

The platform includes all of the hardware, firmware, software, SDK and services needed for a variety of use cases. The software platform, which supports iOS and Android devices, allows manufacturers to create their own unique and differentiated products.

Intel® IQ Software Kits

Intel® IQ Software Kits combine algorithms, device software, application and cloud software to help customers incorporate advanced functionality into their wearable designs and provide a user experience that offers greater utility and value. The kits include a small and efficient real-time operating system (RTOS), middleware service and drivers, customizable cloud portals as well as basic device management, visualization and analytics features.

Newly announced at IDF are two new Intel IQ Software Kits: Intel Identity IQ and Intel Time IQ, which will be released by the end of 2015.

Intel IQ Software Kits include:
- Identity IQ establishes the identity of the user of the wearable device and enables personalized and secure experiences with services that require personal authentication.
- Time IQ aims to improve the efficiency of wearable users' daily routines and accomplish tasks with contextually-aware notifications.
- Body IQ enables capabilities related to physical activities, including counting steps and calculating calories burned as well as providing data visualizations to help achieve goals.
- Social IQ supports social interactions, including communication via phone, social networks and SMS with peers and brands.

Availability

The Intel Curie module is currently sampling and will ship to select OEMs and ODMs later in 2015.   The Intel IQ Software Kits will support future versions of the software platform which will be available for select OEMs and ODMs initially.

The Intel® Curie™ module has not yet been authorized as required by the rules of the Federal Communications Commission. These devices are not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

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