Next-generation computing platform

Ultra-miniature all-in-one module for IoT/Wearables

- Ultra miniaturized
- Ultra-low power

Technical Solution

A smartphone can serve as a multi-purpose controller in the IoT era, but do we really want to look at our smartphones hundreds of times a day? It would be bothersome, for instance, to input passwords so frequently.

16Lab, an award-winning developer, delivers an alternative intuitive computing experience through its ultra-miniature module that can be used for various functions, such as gesture transmitter, alert device, contactless key, and e-wallet. With its patented technology, new authentication functions and methods can be implemented as well, making it an all-in-one module.

16Lab’s strengths include:
- Greater 3D gesture controller accuracy;
- The world’s top level ultra-low power consumption technology;
- A consortium of world-class engineering partners in all areas;
- A platform with a network of leading global business partners.

Product and Technology Overview

Ultra miniaturized: Measures only 6.0 x 15 mm.
Complete: Just connect a power source (external/third-party).
Integrated: Includes 6-axis IMU, flash memory and smart CC LED driver.
Extensibility: Supports GPIO, SPI and I2C.
Updatable: OTA is available.
Bluetooth 5 ready: Redefines the scope of IoT and wearable devices.

Overview of NEDO Project involved this innovation

Project for Supporting Technology-Based Ventures/Start-up Innovators Program

NEDO, with the aim to create mega-ventures in the future, works with business launch supporters (catalysts) in supporting entrepreneurs (start-up innovators) of technology-based ventures in their research & development and business framework building efforts. In 2014, the first call for applications garnered 420 applicants, of which 14, including 16Lab, were selected.