Get your next Sensor Design to market faster with the Arira Design Smart HDK
Let our team of experts help you today...

The Arira Design Smart HDK
The HDK is a smart web-based sensor system solution which integrates low power Microcontrollers with MEMS sensors, (Accelerometer, Gyro, Pressure), Light Sensor, Temperature Sensor, GPS and Wireless connectivity (Active RFID, WiFi, Bluetooth®, GSM/GPRS) while implementing the latest version of the ISO 18000-7 "DASH7" standard used increasingly by defense and commercial customers in need of a low-power, long-range solution at 433 MHz.

Potential applications for the HDK include tracking and monitoring hazardous material, assets, transportation, remote health care monitoring, as well as home automation security and surveillance.

The kit was developed by engineers from STMicroelectronics' Multi-Market Competence Center in Schaumburg, Illinois, in conjunction with Arira Design.

Available Modules

**Base HDK AP001-00**
The BASE HDK is a STM32 microcontroller based board with on board GPS and a series of sensors: ambient light detector, accelerometer, gyroscope, and temperature sensor. A console port and included software allow for interfacing the board with a standard PC. Expansion connectors are available for use with the modules below, or your own user developed modules. A CD comes with a Getting Started Guide, User's Guide, software libraries, and software examples.

**433Mhz Radio Module AP006-00**
The 433Mhz Radio Module is an Active RFID / ISO 18000-7 (DASH7) compliant radio module to the Base HDK. This plug in module incorporates a Semtech SX1212 transceiver operating at 433 MHz.

**Humidity & Hall Effect Sensor AP002-00**
This plug in module includes a hall-effect chip, and a timer based humidity sensor circuit.

**MEMS Barometer AP003-00**
This plug in module includes a digital Barometer.

**WiFi AP004-00**
This module provides a single chip 802.11b/g WLAN radio.

**Bluetooth® AP005-00**
This plug in module includes a Bluetooth® (802.15.1 compliant) class 2 transceiver.

**GSM/GPRS/Module**
This plug in module includes a Tri-Band/Quad-Band GSM/GPRS solution.

For more information contact...

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