

# Chilkat HDK

## For Wearable/Consumer Applications

### QuickLogic Time-Series (EOS S3AI) AI Development Kit

The **Chilkat HDK** is an easy-to-use development platform, designed to facilitate evaluation of QuickLogic's Time-Series QuickAI solution, without requiring the development of your own hardware or firmware. It is ideal for sports/fitness, elderly care, work safety, and animal wearable applications.

The Chilkat HDK is an evaluation platform for the QuickLogic EOS™ S3AI system-on-chip (SoC). The HDK includes continuous (time-series) sensors such as accelerometer, gyroscope, magnetometer, ambient light, barometer, and temperature as well as digital microphone (PDM). The Chilkat HDK can store data locally using an on-board Flash or transmit sensor data via a built-in Bluetooth® Low Energy (BLE) module.

The Chilkat HDK is ideal for wearable or consumer applications where gestures and context awareness algorithms are needed. The algorithms can be created without writing a single line of code by using the SensiML™ AI Toolkit platform, which works seamlessly with the Chilkat HDK.

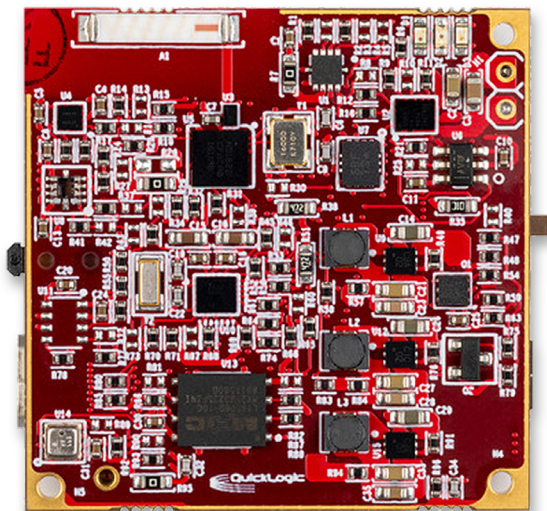
The Chilkat HDK includes a demo application that makes it ready to use out of the box. The device

comes with a boot-from-flash feature to enable users to evaluate QuickAI™ applications. It also links directly with the SensiML Data Analytics Toolkit (free 90-day evaluation period included) in order to collect data, develop AI models, algorithms and new classifiers. Updating the Chilkat HDK is possible via the included USB cable. This enables the creation of demos and prototypes without any additional development time or resources.

Advanced users can use the Chilkat HDK as a development kit using the QuickAI SDK. The SDK includes an Arm® SWD interface for the EOS S3AI SoC and a second interface for the BLE device. Users can also add more sensors to the HDK via available connectors and the accompanying QuickAI SDK. The Chilkat HDK also come with a wrist-worn form factor band for wearable application development.



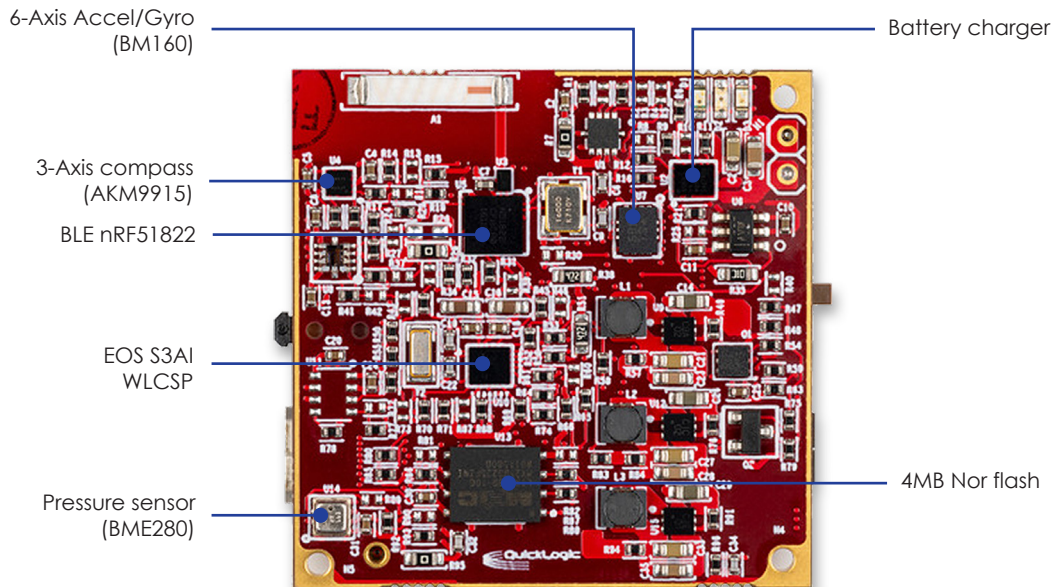
Chilkat HDK comes with a wrist-worn strap for easy data collection and testing of the AI models.



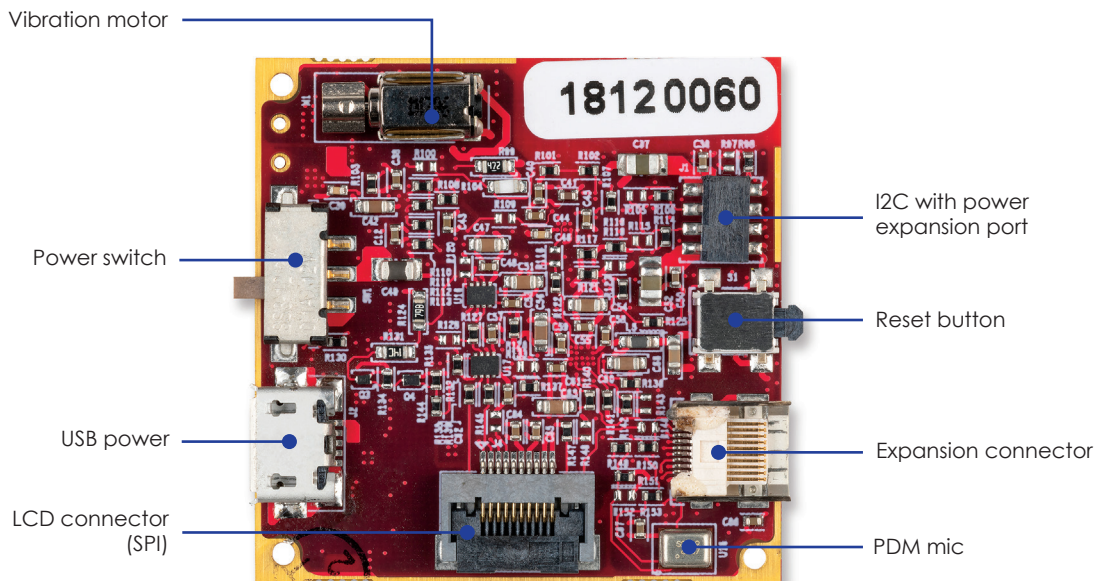
QuickLogic Chilkat HDK (34.29mm x 34.29)

## Key Features

### Chilkat HDK - Front View



### Chilkat HDK - Back View



## Ordering Information

For more information or to order, refer to part number **QAI-CHILKATKIT-AA-2.0** and go to [www.quicklogic.com/products/quickai/](http://www.quicklogic.com/products/quickai/)

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