

# Merced HDK

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

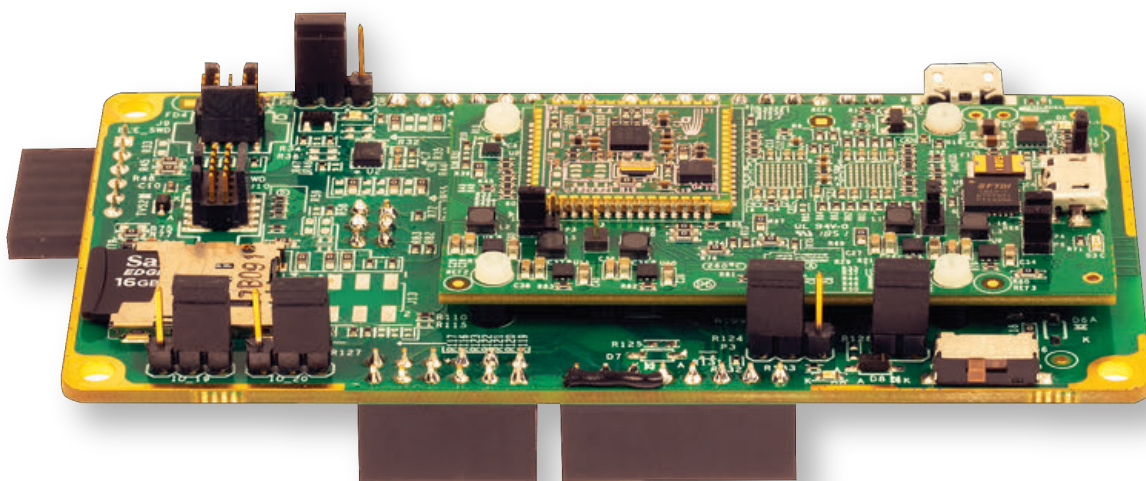
The **Merced HDK** is an easy-to-use development platform, designed to help with evaluation of QuickLogic's Time-Series AI solution, without developing your own hardware or firmware.

The Merced HDK is an evaluation platform for QuickLogic's EOS S3AI SoC. The HDK comes with time-series (continuous) sensors, including accelerometer/gyroscope/magnetometer motion sensors and two digital microphones (PDMs). The Merced HDK can store data locally using a µSD card or transmit sensor data via a built in BLE module.

The Merced HDK is an Arduino form-factor compatible module. This makes it an ideal hardware platform to expand features without developing new hardware. The Merced 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 in order to collect data, develop AI models, algorithms and new classifiers. Updating the Merced HDK is possible via an on-board USB-2-UART connection. This enables the creation of demos and prototypes without any additional development time or resources.

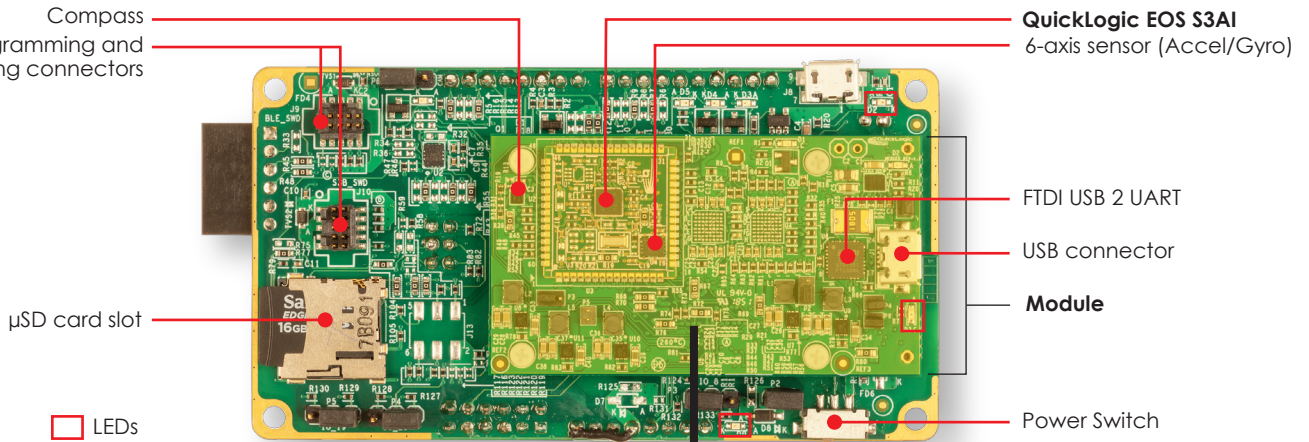
Advanced users can use the Merced HDK as a development kit using the QuickAI SDK. The SDK includes an Arm® SWD interface for the EOS S3AI SoC and a second interface for the BLE device.



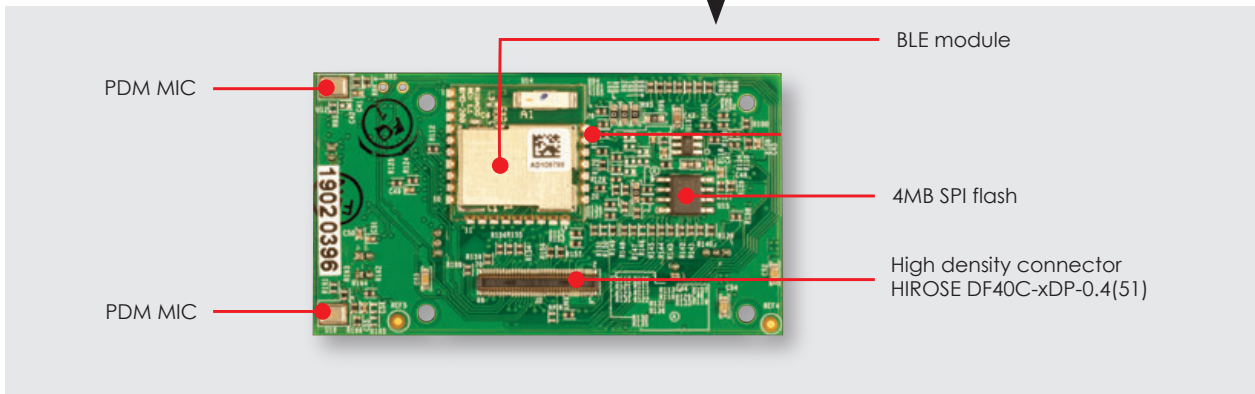
QuickLogic Time Series (EOS S3AI)

## Key Features

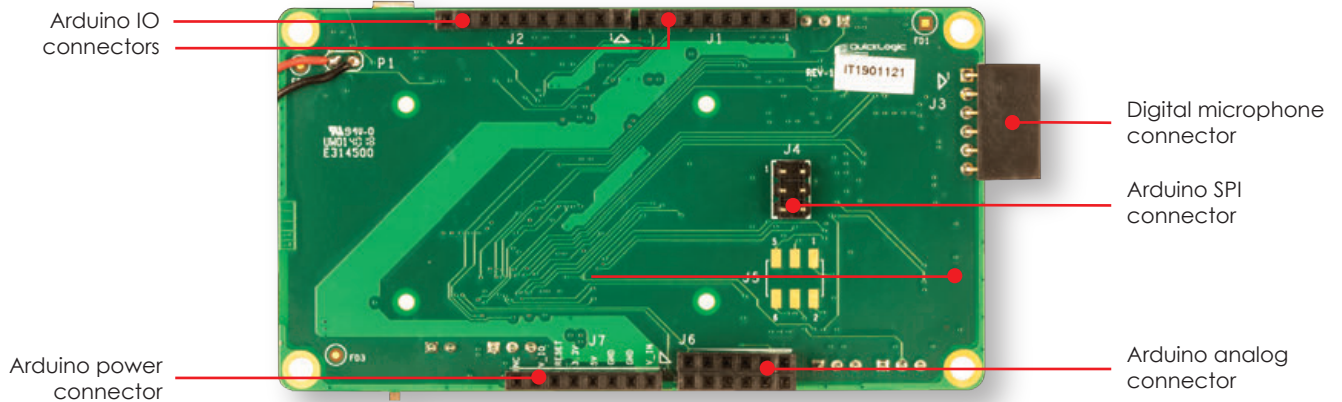
### Merced HDK - Front View



### Module-Back View



### Merced HDK - Back View



## Ordering Information

For more information or to order, refer to part number **QAI-EVALKIT-AA-1.0** and go to <https://www.quicklogic.com/products/quickai/>

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