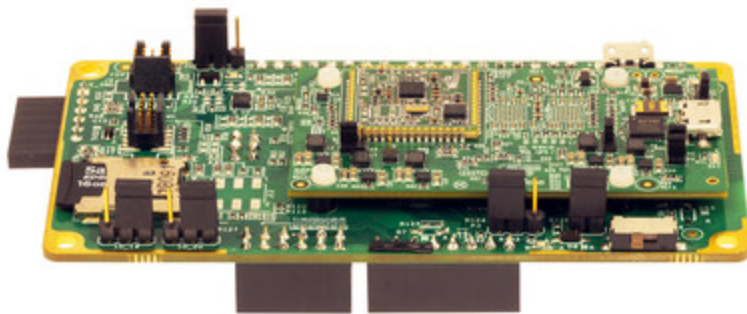# QuickLogic Launches the EOS S3AI SoC Platform for Time Series IoT Endpoint Applications

- In conjunction with the SensiML Analytics Toolkit, EOS S3AI delivers a practical end-to-end solution with minimal data science and firmware resources

- The EOS S3AI HDK (Hardware Development Kit) includes a 90-day trial period for the SensiML Analytic Toolkit and enables easy evaluation of EOS S3AI

- Enables local inferencing (decision making), which reduces latency, power consumption and costs by eliminating the need for high bandwidth cloud connections

SUNNYVALE, Calif., Feb. 13, 2019 /PRNewswire/ -- QuickLogic Corporation (NASDAQ: QUIK), a developer of ultra-low power multi-core voice-enabled SoCs, embedded FPGA IP, and Endpoint AI solutions, today announced the launch of its EOS™ S3AI platform for endpoint Artificial Intelligence (AI) and Machine Learning (ML) applications.

The new AI platform provides all the hardware blocks needed to enable low power AI at the IoT endpoint and includes seamless hooks to the SensiML™ Analytics Toolkit for sensor applications requiring time series (continuous) data analysis. This platform approach speeds system-level design and implementation, improves bandwidth, power, latency and security,

while reducing many of the costly and time-consuming resources necessary to deploy AI-based IoT solutions. The EOS S3AI platform solution is ideal for endpoint applications, such as predictive maintenance, structural health monitoring, context awareness for wearables, and manufacturing process control.

This single chip solution utilizes the SensiML Analytics Toolkit to efficiently identify which complex feature extraction algorithms are ideal for the labeled data sets and generates the AI models and classifiers using machine learning techniques for code development. The AI model that is subsequently generated is uniquely optimized to fit in the EOS S3AI hardware blocks (eFPGA, uDSP and M4) and are programmed effortlessly by the SensiML Toolkit. This tight integration of hardware and software ensures that the AI algorithms created with the toolkit are optimized for the EOS S3AI platform, enabling low power and efficient endpoint processing with the help of hard accelerators and eFPGA feature extraction algorithms.

The EOS S3AI platform allows the OEM to lower system and operating costs and improve reliability by eliminating the need for continuous high-bandwidth connectivity. Because the platform enables AI endpoint solutions to be developed easily and quickly with minimal data science and firmware engineering resources, endpoint application customers will benefit from lower product development costs while gaining valuable time-to-market advantages.

"The Industry 4.0 initiative calls for predictive maintenance and automation in manufacturing and industrial settings," said Sam Massih, director of product management at QuickLogic. "Our new EOS S3AI platform featuring the SensiML Analytics Toolkit, will further accelerate the adoption of AI in motors, bearings and manufacturing equipment. Our customers win by getting the ease-of-use and flexibility they need to get to market quickly without the need for large teams of data scientists or firmware engineers, which are typically required in the AI space."

Availability
The EOS S3AI platform and the SensiML Analytics Toolkit are available now.

About QuickLogic
QuickLogic develops low power, multi-core semiconductor platforms and Intellectual Property (IP) for Artificial Intelligence (AI), voice and sensor processing. The solutions include an embedded FPGA IP (eFPGA) for hardware acceleration and pre-processing, and heterogeneous multi-core SoCs that integrate eFPGA with other processors and peripherals. The Analytics Toolkit from the company's wholly-owned subsidiary, SensiML, completes the 'full stack' end-to-end solution with accurate sensor algorithms using AI technology. The full range of platforms, software tools and eFPGA IP enables the practical and efficient adoption of AI, voice and sensor processing across the multitude of mobile, wearable, hearable, consumer, industrial, edge and endpoint IoT applications. For more information, visit www.quicklogic.com and https://www.quicklogic.com/blog/.

About SensiML
SensiML, a subsidiary of QuickLogic, offers cutting-edge software that enables ultra-low power IoT endpoints that implement AI to transform raw sensor data into meaningful insight at the device itself. The company's flagship solution, the SensiML Analytics Toolkit, provides an end-to-end development platform spanning data collection, labeling, algorithm and firmware auto generation, and testing. The SensiML Toolkit supports Arm® Cortex®-M class

and higher microcontroller cores, Intel® x86 instruction set processors, and heterogeneous core QuickLogic SoCs and QuickAI platforms with FPGA optimizations. For more information, visit www.sensiml.com.

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