Synaptics Launches Katana Edge AI Kit To Accelerate Development of AI Vision and Sensor Fusion Applications for the IoT

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Built around the low-power Katana SoC with its advanced neural network engine, the kit combines multiple sensors, software, and wireless connectivity to kickstart smart edge designs

SAN JOSE, Calif., March 28, 2022 (GLOBE NEWSWIRE) -- Synaptics Incorporated (Nasdaq: SYNA) today announced an Edge AI evaluation kit (EVK) for the rapid development and prototyping of artificial intelligence (AI) applications at the edge. Based on the Synaptics® low-power Katana system-on-chip (SoC) platform, the kit combines vision, motion, and sound detection hardware and software with wired and wireless connectivity to simplify the design and development of edge AI for the Internet of Things (IoT), including smart home, building, industrial, and monitoring applications.

Demonstrations of the kit and technical sessions around Katana will be given at the tinyML Summit this week (March 28-30) where Synaptics is a Platinum sponsor.

The edge AI hardware market is projected to reach $38.9 billion by 2030, reflecting a compound annual growth rate (CAGR) of nearly 19 percent from 2021, according to Valuates Reports.[1] Applications driving this growth include automotive and consumer electronics, both of which have a need for the real-time, low-latency response edge AI enables. While power consumption and size constraints are challenges for the implementation of an edge semiconductor, according to the report, the rise in demand and adoption of AI products and services is expected to create lucrative opportunities.

Synaptics' Katana SoC Edge AI Evaluation Kit

The Katana Edge AI EVK allows quick evaluation of the Katana low-power SoC and quick development of edge AI vision and sensor fusion applications.

Synaptics Katana Edge AI EVK accelerates development of applications in smart-home security and assisted living, industrial vision solutions, smart-buildings, and smart-cities. "The market for low-power edge AI solutions is characterized by a broad spectrum of applications that have specific use case requirements," said Ananda Roy, Sr. Product Manager, Low-Power AI, at Synaptics. "What they have in common is that they all require intelligent and efficient detection and analysis of image, audio, voice, and motion data."

In some instances, various sensor fusion algorithms are required to provide more accurate—and actionable—data. "Edge AI and sensor fusion are complex, multifaceted fields of application development and we know from experience that our customers benefit most by having a more complete platform of hardware, software, wireless connectivity, and technical support to get their IoT concepts to market," Roy added.

Katana Edge AI EVK Highlights:

- Baseboard with the Katana SoC with advanced neural network engine for low-power edge AI processing
- Sensors for imaging, audio, voice, and motion
- Synaptics Wi-Fi + Bluetooth low energy (BLE) wireless connectivity module
- Accessories for people detection application development, including mounting bar and clips for overhead camera
- Cabling
- Batteries
- Enclosure
- Instructions and software

Availability
The Edge AI EVK is available now through Synaptics' sales channels . To learn more, view:
Demo: Katana Edge AI EVK reading meter display panel
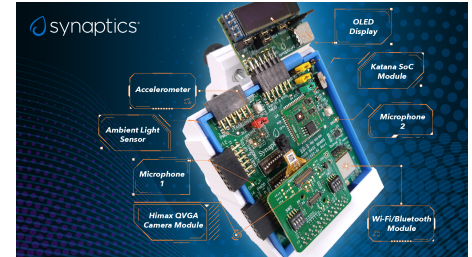Demo: Katana Edge AI EVK performing people detection and counting
Visit Synaptics at the tinyML Summit for a live demo of the Katana Edge AI Kit

For more info, contact your local Synaptics sales representative.

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[1]: https://reports.valuates.com/reports/ALLI-Manu-1S54/edge-ai-hardware

About Synaptics Incorporated:

Synaptics (Nasdaq: SYNA) is changing the way humans engage with connected devices and data, engineering exceptional experiences throughout the home, at work, in the car, and on the go. Synaptics is the partner of choice for the world's most innovative intelligent system providers who are integrating multiple experiential technologies into platforms that make our digital lives more productive, insightful, secure, and enjoyable. These customers combine Synaptics' differentiated technologies in touch, display, and biometrics with a new generation of advanced connectivity and AI-enhanced video, vision, audio, speech, and security processing. Follow Synaptics on LinkedIn, Twitter, and Facebook, or visit www.synaptics.com.

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