



Sagire AI Announces System on Module and Development Kit based on Qualcomm QCS6490 System on Chip

Designed to enable Advanced AI Capabilities in Edge IoT Devices

Del Mar, CA, July 11, 2024 – Sagire AI Inc, a pioneering company at the intersection of artificial intelligence and Internet of Things (IoT) systems, today announced the SagireEdge™ AI 600 SOM (System on Module) and SagireEdge™ AI 600 Development Kit.

Founded with a mission to transform industries and elevate lives through the rapid advancement of machine and deep learning technologies, Sagire AI aims to accelerate the adoption of AI in edge computing.

The SagireEdge™ AI 600 SOM, a SMARC form factor, production-ready embedded module, offers an outstanding combination of performance and efficiency for consumer and industrial IoT applications. The Smart Mobility ARChitecture (SMARC) compliant form factor offers flexibility, compatibility, and futureproofing, making it ideal for low-power, cost-effective systems.

The SagireEdge™ AI 600 SOM, powered by the Qualcomm® QCS6490 processor, supports a powerful heterogeneous computing architecture with eight high-end 64-bit applications processors, a Qualcomm® AI Engine, three top class image signal processors (ISPs) with support for up to a 192 MP camera, as well as the new Qualcomm® Hexagon™ Tensor Accelerator (HTA). The Wi-Fi 6E and enhanced Bluetooth 5.2 offers battery-saving and enhanced security for robust connections.

“The SagireEdge™ AI 600 is the ideal high performance, power-efficient, platform for OEMs deploying AI at the edge,” said Mark Waldenberg, President, Sagire AI. “To fast-track development of products utilizing the SagireEdge™ 600 SOM, we provide a full-featured development kit, and our proprietary software tool for accelerating AI model development, Sagire Studio. We also augment our products with support and comprehensive product development services from our expert engineering services team.”

SagireEdge™ AI 600 SOM Key Specifications:

System	Processor	QCS6490 System on Chip (SoC) with 8x Qualcomm® Kryo™ 670 CPUs (1 x 2.7 GHz, 3 x 2.4 GHz & 4 x 1.9 GHz)
	Supported OS	Android, Linux, and Windows IOT
	RAM	8GB LPDDR5
	Flash Storage	128GB SSD
I/O (SMARC Edge Connector)	Display	1 x MIPI-DSI or 1 x eDP
	Camera	3 x 4-Lane MIPI-CSI 1 x 2-Lane MIPI-CSI
	Ethernet	1 x GbE LAN
	USB	2 x USB 2.0 (1 x OTG) 2 x USB 3.1
	PCIe	1 x PCIe Gen3 – 2 Lane
	General I/O	4-bit SD, 12 x Digital IO, 3 x I2C, 1 x SPI, 2 x UART, 1 x PWM, 1 x CAN
Wireless	Bluetooth	Bluetooth 5.2
	Wi-Fi	WiFi 802.11 ax (6E)
Video	Qualcomm Spectra™ Camera	64 MP / 36 + 22 MP / 3x22 MP at 30fps ZSL 192 MP non-ZSL
	Qualcomm® Adreno™ VDU	H.265, H.264 and V9 encode and decode with HDR10 and HDR10+

		playback support. 4K60 decode and 4K30 encode
	Qualcomm® Adreno™ GPU	Open GL ES 3.2, Open CL 2.0, Vulkan 1.x, DX FL 12
Operating Environment	Temperature	-20~ 60 °C

To assist companies desiring to build AI enabled IoT devices, Sagire offers the SagireEdge™ AI 600 Development Kit, a full-featured open-frame platform. The development kit combines the production ready SagireEdge™ AI 600 SOM with a carrier board providing numerous expansion and connectivity options to support development and testing of peripherals and applications. The development kit also includes an initial release version of Sagire AI Studio, a comprehensive suite of tools and resources to streamline AI model development and deployment, enabling businesses to accelerate their AI initiatives quickly and effectively. Sagire AI Studio provides an integrated solution for the development, deployment, execution, analysis, and management of AI applications at the Edge.

Sagire complements its products with an experienced multidisciplinary engineering team that can deliver tailored solutions to our client’s specific requirements, whether it is the development of an AI enabled IoT device, or AI applications that help organizations to optimize processes, enhance customer experiences, or unlock valuable insights from data.

For additional information, please visit: <https://www.sagire.ai/ai-systems>

About Sagire AI Inc:

Sagire AI Inc. is a leading provider of advanced edge AI solutions, empowering businesses to unlock the full potential of artificial intelligence in IoT systems. With a focus on accelerating AI adoption at the edge, Sagire AI

offers advanced edge AI computer systems, expert development services, and the Sagire AI Studio software suite. Founded by industry veterans with a history of success in edge AI computing, Sagire AI is committed to driving innovation and transforming industries through the power of AI and high-performance efficient edge computing.

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