



Product Brief

SagireEdge™ AI 600 Industrial Platform

Powered by the Qualcomm QCS6490

Highlights

- High performance, low power AI Edge computing with up to 12 TOPS
- Support for AI deep learning training and deployment models
- Powered by the Qualcomm® QC6490 SoC
- Preloaded with a Ubuntu Linux O/S with Android coming soon
- A range of external interfaces including dual Ethernet, USB 2.0, USB 3.1, HDMI & digital I/O.
- Wi-Fi 6E and BT 5.2 (Version Option)
- Extended temperature range
- Fanless design

Features

The SagireEdge™ AI 600 industrial platform is an embedded development and deployment solution based upon the Qualcomm® QCS6490 SoC which delivers high performance processing, true AI computing and power efficiency at the Edge.

The Qualcomm® QCS6490 SoC features a powerful heterogeneous computing architecture with eight high-end 64-bit applications processors, and the new Qualcomm® Hexagon™ Tensor Accelerator (HTA) with a fused AI accelerator, enabling faster data transfer between all cores.

The platform supports 4K video encoding/decoding & streaming, two RJ45 Ethernet I/Fs, micro-HDMI, one USB 2.0, two USB 3.1s and digital I/O.

The SagireEdge™ AI 600 industrial platform includes Sagire AI Studio™, a comprehensive AI stack that supports modeling, optimization, deployment, and execution of cloud-to-edge industrial AI applications.

The wall-mounted brackets, fanless design and industrial specifications make the platform easy to install in harsh IOT environments that require Edge AI applications in aerospace, defense, surveillance, medical, industrial and consumer electronics.

Sagire AI complements its products with an experienced multi-disciplinary engineering team that can deliver tailored hardware and software solutions to our client's specific requirements.



SagireEdge™ AI 600 Industrial Platform


Specifications

System	Processor	QCS6490 System on Chip (SoC) with 8x Kryo 670 CPUs (1 x 2.7 GHz, 3 x 2.4 GHz & 4 x 1.9 GHz)
	Supported OS	Ubuntu Linux with Android coming soon
	Memory	8GB LPDDR5
	Storage	128GB SSD
I/O	Ethernet	2x RJ45 Gigabit Ethernet
	USB	1 x USB 2.0 Micro-B 1 x USB 3.1 Type A
	HDMI	1 x HDMI
	GPIO	8 x Digital I/O (4 x DI & 4 x DO) - Standard Version 4 x Digital I/O (2 x DI & 2 x DO) - Wi-Fi Enabled Version
Wireless (Wi-Fi Enabled Version)	WLAN	Wi-Fi 6 (802.11ax) and Wi-Fi 6E (6 GHz)
	BT	Bluetooth® 5.2
Video	Compression	H.265, H.264, & V9 encoder/decoders
	Video Decode	Up to 4K @ 60fps with support HDR10 and HDR10+ playback
	Video Encode	Up to 4K @ 30fps
Operating Environment	Temperature	-20 ~ 60 °C

Purchasing Information

Model	Part Number	Description
SagireEdge™ AI 600 Industrial Platform	SEA601-IP	Standard Version
SagireEdge™ AI 600 Industrial Platform	SEA602-IP	Wi-Fi Enabled Version



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