



Product Brief

SagireEdge AI 100 Industrial Platform

Powered by the NVIDIA Jetson™ Orin Nano

Highlights

- True AI computing at the Edge
- Support for AI deep learning training models
- Linux OS with BSP (Board Support Package)
- Fanless design
- NVIDIA Jetson™ Orin Nano with 4GB or 8GB modules with up to 40 TOPS
- A range of external interfaces, including a dual Ethernets, 4 USB 3.1, micro HDMI and digital I/O.
- Extended temperature range

Features

The SagireEdge™ AI 100 industrial platform is an embedded development and deployment solution based upon NVIDIA's Jetson™ Orin Nano SOM and brings true AI computing at the edge with up to 40 trillion operations per second (TOPS).

The SagireEdge AI 100 features up to 4K video decoding, 1080p encoding & streaming, two RJ45 Ethernet I/Fs, micro-HDMI, one USB 2.0, four USB 3.1, 8 GPIO and M.2 SSD (PCIe) support.

The SagireEdge AI 100 industrial platform SDK provides an optimized stack that supports modeling, deployment, and execution. The optimised libraries and infrastructure accelerates the development and distribution of cloud-to-edge industrial AI applications.

The wall-mounted brackets, fanless design and industrial specifications make the platform easy to install in harsh environments that require Edge AI applications, such as smart cities, traffic monitoring, etc.



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Specifications

System	Processor	NVIDIA's Jetson™ Orin Nano 6 x Cortex-A78AE 5.5MB cache Ampere GPU - 512 Cores (4GB Version) Ampere GPU - 1024 Cores (8GB Version)
	Supported OS	Ubuntu 20.04 w/ Jetson Jetpack 5.1.2
	Memory	4GB/8GB LPDDR5
	Storage	128GB SSD
I/O	Ethernet	2x RJ45 Gigabit Ethernet
	USB	1 x USB 2.0 Micro-B 4 x USB 3.1 Gen1 Type A
	HDMI	1 x Micro HDMI
	Digital I/O	8 x Digital IO (4 x DI 4 x DO)
	DC Power	12V-19v DC
Video	Compression	H.265, H.264, & AV1 encoders
	Video Decode	4K @ 60fps/2 x 4K @ 30fps/11 x 1080p @ 30fps
	Video Encode	1080p @ 30fps using 2 CPU cores
Operating Environment	Temperature	-20~ 60 °C

Purchasing Information

Model	Part Number	Processor
SagireEdge AI 100 Industrial Platform	SEA104-IP	NVIDIA Jetson Orin Nano 4GB (20 TOPS)
SagireEdge AI 101 Industrial Platform	SEA108-IP	NVIDIA Jetson Orin Nano 8GB (40 TOPS)



— TRANSFORMATIVE EDGE AI —

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