



Product Brief

SagireEdge AI 200 Camera Server

Powered by the NVIDIA Jetson™ Orin NX

Highlights

- High performance AI Edge computing
- Support for AI deep learning with video analytics
- Linux OS with BSP (Board Support Package)
- NVIDIA Jetson™ Orin NX with 8GB or 16GB modules with up to 100 TOPS
- A range of external interfaces, including a dedicated Ethernet camera i/f
- Extended temperature range

Features

The SagireEdge AI 200 Camera Server is an embedded development and deployment solution based upon NVIDIA's Jetson™ Orin NX SOM and brings true AI computing and video analytics at the edge with up to 100 trillion operations per second (TOPS).

The SagireEdge AI 200 features up to 4K video encoding/decoding & streaming, with one Gbit Ethernet, a dedicated camera 100/100 Ethernet with digital controls, micro-HDMI, one USB 2.0, one USB 3.1, 4 DO, and PWM.

The SagireEdge AI 200 Camera Server SDK provides an optimized stack that supports modeling, deployment, and execution. The optimized libraries and infrastructure accelerates the development and distribution of cloud-to-edge industrial AI applications.

The compact, 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, manufacturing, traffic monitoring, etc.



SagireEdge AI 200 Camera Server

Specifications

System	Processor	NVIDIA's Jetson™ Orin NX 6 x Cortex-A78AE 5.5MB cache (8GB Version) 8 x Cortex-A78AE 6MB cache (16GB Version) Ampere GPU (1024 Cores)
	Supported OS	Ubuntu 20.04 w/ Jetson Jetpack 5.1.2
	Memory	8GB/16GB LPDDR5
	Storage	128GB/256GB SSD
I/O	Ethernet	1 x RJ45 Gigabit Ethernet 1 x RJ45 10/100 Ethernet
	USB	1 x USB 2.0 Micro-B 1 x USB 3.0 Type A
	Analogue	1 x PWM (0 -10v)
	HDMI	1 x Micro HDMI
	Digital I/O	4 x Digital Out (Relay 1 & 2)
	DC Power	12V-19v DC
Video	Compression	H.265, H.264, & AV1 encoders
	Video Decode	8K @ 30fps/4K @ 60fps/2 x 4K @ 30fps/18 x 1080p @ 30fps
	Video Encode	4K @ 60fps/2 x 4K @ 30fps/12 x 1080p @ 30fps
Operating Environment	Temperature	-20~ 60 °C

Purchasing Information

Model	Part Number	Processor
SagireEdge AI 200 Camera Server	SEA208-CS	NVIDIA Jetson Orin NX 8GB (70 TOPS)
SagireEdge AI 201 Camera Server	SEA216-CS	NVIDIA Jetson Orin NX 16GB (100 TOPS)



— TRANSFORMATIVE EDGE AI —

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