



Edge AI Computing Solutions



www.axiomtek.com



AI Everywhere

Unleashing the Potential of Edge AI Computing

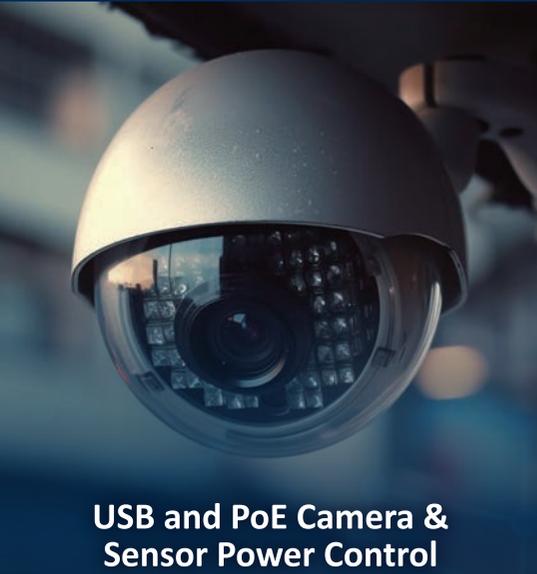
Artificial Intelligence is transforming industries by enabling faster insights, smarter automation, and more efficient operations. Axiomtek delivers innovative Edge AI embedded systems that accelerate application deployment from the edge to the edge-cloud. Designed for scalability and cost efficiency, our solutions empower AI adoption across security, infrastructure, retail, smart factories, and smart cities.

Edge AI Computing Use Cases

- Smart Manufacturing
- Smart City
- Autonomous Machine
- Robotics & Physical AI
- Smart Energy
- Public Sector
- Smart Agriculture
- Smart Transportation

Add-on Value

Axiomtek goes beyond hardware with intelligent add-on features that improve reliability and lifecycle management, enabling remote power control, ignition-synchronized operation, and smart auto-recovery to minimize downtime and simplify edge AI maintenance.



USB and PoE Camera & Sensor Power Control

Easily reboot the connected vision device by remote command.



Smart Ignition Power Control for In-vehicle

Ensure safe startup and shutdown of edge devices with ignition sync.



Smart Wireless Auto-Recovery

Automatically recover lost wireless connections with smart reboot.

Leveraging Our Ecosystem: Sensor, Camera, AI Software

Axiomtek works closely with a broad ecosystem of leading sensor, camera, and AI software partners to deliver flexible, end-to-end Edge AI solutions. By integrating proven technologies across vision, sensing, and perception, Axiomtek helps customers accelerate development and deployment across diverse AI applications.



Axiomtek's Partnership with NVIDIA

Axiomtek edge AI systems combine powerful GPU computing with AIoT versatility, delivering ready-to-deploy solutions for robotics, vision AI, autonomous machines, and edge applications. Built on NVIDIA Jetson platforms and accelerated by JetPack SDK, these systems simplify AI development and speed time-to-market. With compact, high-performance, and rugged designs, they ensure reliable operation in the most challenging environments, helping businesses drive innovation and efficiency at the edge.



Axiomtek Software Services Ready for NVIDIA Jetson

Axiomtek delivers end-to-end software services for NVIDIA Jetson platforms, covering BSP porting, driver support, and system image customization. Backed by long-term technical support, Axiomtek helps customers accelerate deployment and streamline Edge AI system integration.



BSP Porting

Nvidia Jetson Linux BSP Porting /
Multiflash Mode / JetPack
Components Pre-installation



Peripheral Driver Support

Sensor / 2D&3D Camera /
GMSL Camera /
Wireless Module

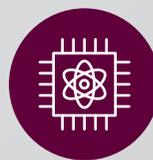


Image Customization

Device Tree Modification /
Custom Splash Screen /
Kernel / OTA



Technical Support & Value UP Service

AMR Builder Package /
NVIDIA Isaac Perceptor (ROS2)

Empowering Innovation

Axiomtek's Edge AI Solutions

Axiomtek DigiHub

Ecosystem partner AI package

UTILITY



TOOLKITS/SDKS



AIE100



AIE110



AIE015-AT



AIE500



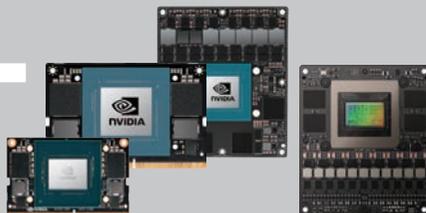
AIE800



AIE810



AIE900



NVIDIA Jetson system-on-module

PLATFORMS



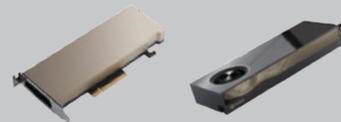
TOOLKITS/SDKS



iHPC100



IPC964A



GPGPU/FPGA - PCIe



eBOX671B



GPGPU/ASIC - MXM

PLATFORMS

Smart Choices, Intelligent Outcomes: Axiomtek's Edge AI Array

Axiomtek has developed edge AI platforms, leveraging the full spectrum of NVIDIA® Jetson modules, such as the NVIDIA® Jetson Nano™, NVIDIA® Jetson Xavier™ NX, NVIDIA® Jetson AGX Xavier™, NVIDIA® Jetson Orin Nano™, NVIDIA® Jetson Orin™ NX, NVIDIA® Jetson AGX Orin™, and NVIDIA® Jetson Thor™. These platforms cater to a diverse range of AI applications, including robotics, computer vision, autonomous systems, and intelligent video analytics.





AIE015-AT

Up to 2070 TFLOPS

*NVIDIA® Jetson Thor™:
NVIDIA® Jetson T5000
NVIDIA® Jetson T4000*

- Ideal for NVIDIA Isaac™, Holoscan, and Metropolis
- Easy management: USB and PoE device power control
- One QSFP28 & 8-CH GMSL for camera and sensor fusion
- Seamless speed: 5G, Wi-Fi 6E, and GbE
- Support multiple purpose of AI model for robotics and physical AI



Physical AI
& Robotics



1 x QSFP28



8-CH GMSL



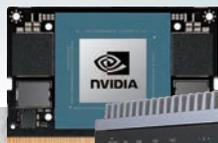
LPDDR5X



Smart
Ignition

E





AIE510

Up to 100 TOPS

NVIDIA® Jetson Orin™ NX
NVIDIA® Jetson Orin Nano™ **Super Mode**

- Seamless speed: 5G, Wi-Fi 6E, and 2.5 GbE
- Easy management: USB & PoE device power control
- 2 PoE, 4-CH GMSL and isolated DIO (4-in/4-out)
- 9 to 36VDC with Smart Ignition
- CE, FCC, and E-Mark certified



AMR
& In-vehicle



4-CH GMSL



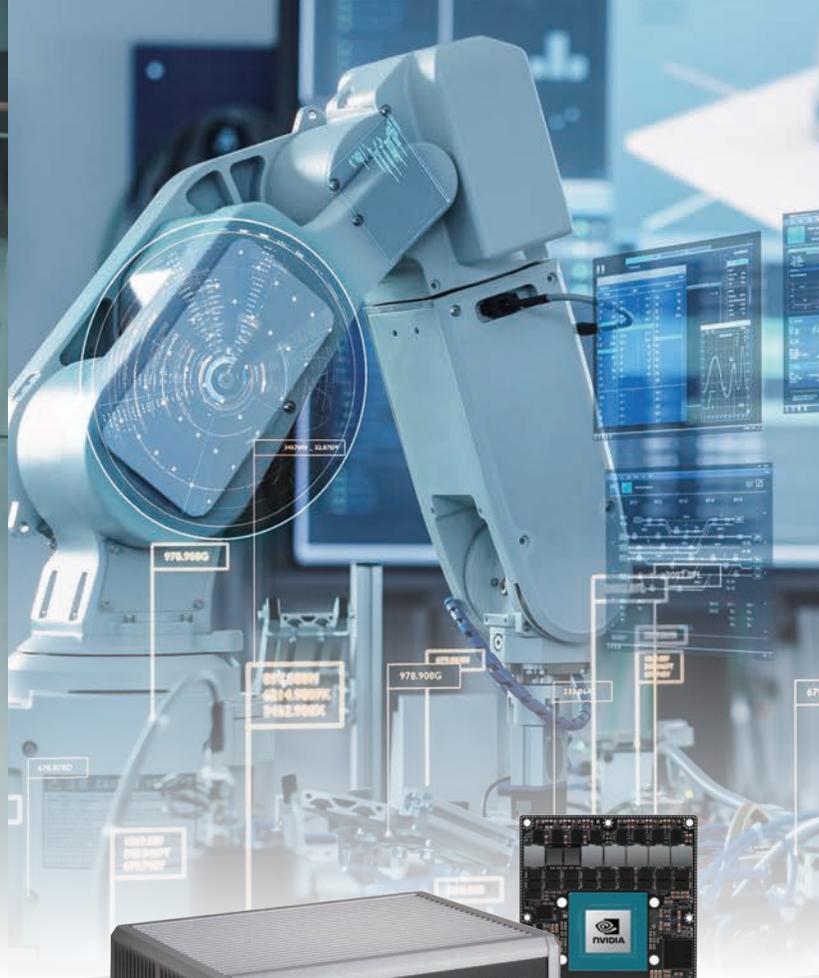
Palm-size



Smart
Ignition



E-Mark



AIE900A

Up to 275 TOPS

NVIDIA® Jetson AGX Orin™

- Seamless speed: 5G, Wi-Fi 6E, and 2.5 GbE
- 6 USB, 2 COM/CAN, and 8-CH DIO
- 8 PoE, 8-CH GMSL for camera and sensor
- 9 to 36VDC with Smart Ignition
- Supports NVIDIA Isaac™ and ROS 2



Robotics



5G/Wi-Fi 6E



8-CH GMSL



NVIDIA
Isaac™



ROS2



AIE100/AIE110

Up to 100 TOPS

NVIDIA® Jetson Orin™ NX
 NVIDIA® Jetson Orin Nano™ **Super Mode**
 NVIDIA® Jetson Xavier™ NX

- Palm-sized, budget-friendly, and highly expandable
- 15W GbE PoE for camera
- Seamless speed: LTE, Wi-Fi, and GbE
- 2 USB, GbE, PoE, and 8-CH DIO
- IP42 rating for semi-outdoor applications
- AIE110: -10°C to +60°C/AIE100: up to -25°C to +70°C

| | | | | |
|--|---|---|---|---|
|  |  |  |  |  |
| Smart City | PoE for Camera Deployment | Budget Friendly | Palm-size | Remote Management (Allxon) |



AIE810

Up to 275 TOPS

NVIDIA® Jetson Orin™ NX **Super Mode**
 NVIDIA® Jetson Orin Nano™ **Super Mode**

- IP67 rating for outdoor applications
- Seamless speed: 5G, Wi-Fi 6E, and 2.5 GbE
- 2 PoE, 2 USB, and 8-CH DIO
- 9 to 36 VDC with Smart Ignition
- -25°C to +60°C

| | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| IP67 | Smart Ignition | PoE for Camera Deployment | 9-36VDC | Wide Temperature |

Beyond Limits: Unleash Innovation with Our Tower GPU Workstation

NVIDIA® RTX/Quadro Support Cutting-Edge GPU Cooling Engineered for Complex AI Workloads



iHPC100

- Unique cooler design for Graphics card
- ATX redundant power 750W for GPU card
- 4 SATA3 with RAID 0/1/5/10



Automation



High-speed
PCIe/PCI Slots



NVIDIA®
RTX/Quadro



IPC964A/IPC962A/IPC960A

Modular Industrial Edge System

- Supports NVIDIA® L4/RTX 4000 SFF graphics card
- Compact optional fan system
- Additional 200W power for accelerator cards
- Advanced thermal design for reliable GPU computing



Automation



AI
Accelerating



5G



Flexible I/O
Configurations



eBOX671B

Robust GPU Computing System

- Seamless speed: 5G, Wi-Fi 6, and 2.5 GbE with TSN
- Supports NVIDIA® MXM 3.1 GPU card for up to 5 display outputs
- -40 °C to +70 °C
- Optional fan kit



AMR
& Robotics



Quint-View



5G/Wi-Fi 6E



Ignition

Selection Guide

Edge AI Systems

| | Model | AI Accelerator | I/O Connectivity |
|------------------------------|------------------|---|---|
| NEW | AIE015-AT | NVIDIA® Jetson Thor™ | 6 USB, 1 QSFP28, 1 GbE, 2 COM/ CAN, 16-CH DIO, 8-CH GMSL |
| NEW <i>Super Mode</i> | AIE100 | NVIDIA® Jetson Nano™ NVIDIA® Jetson™ TX2 NX NVIDIA® Jetson Xavier™ NX NVIDIA® Jetson Orin™ Nano NVIDIA® Jetson Orin™ NX | 2 USB, 1 GbE, 1 PoE |
| NEW <i>Super Mode</i> | AIE110 | NVIDIA® Jetson Xavier™ NX NVIDIA® Jetson Orin™ Nano NVIDIA® Jetson Orin™ NX | 2 USB, 1 GbE, 1 PoE, 8-CH DIO |
| NEW | AIE510 | NVIDIA® Jetson Orin™ Nano NVIDIA® Jetson Orin™ NX | 2 USB, 2 PoE, isolated DIO (4-in/ 4-out), COM/CAN, 4-CH GMSL |
| | AIE800 | NVIDIA® Jetson Xavier™ NX | 2 USB, 1 PoE, 9 to 36 VDC |
| NEW <i>Super Mode</i> | AIE810 | NVIDIA® Jetson Orin™ Nano NVIDIA® Jetson Orin™ NX | 2 USB, 2 PoE, 8-CH DIO |
| NEW <i>Super Mode</i> | AIE900B | NVIDIA® Jetson Orin™ Nano NVIDIA® Jetson Orin™ NX | 4 USB, 1 GbE, 4 PoE, 8-CH DIO, 2 COM/CAN, 8-CH GMSL |
| | AIE900A | NVIDIA® Jetson AGX Orin™ | 2 USB, dual 2.5GbE, 8 PoE, 8-CH DIO, 2 COM/CAN, 8-CH GMSL |
| | iHPC100 | NVIDIA® RTX/ Quadro Graphics card | 11 USB, 2 GbE, 1 HDMI |
| | IPC964A | NVIDIA® Tesla/RTX/ Quadro Graphics card | 6 USB, 2 GbE, 1 NVMe (PCIe x4), 4 PCI/PCIe slots |
| | eBOX671B | NVIDIA® RTX™ MXM GPU card | 6 USB, 4 GbE, 2 HDMI, 1 DisplayPort, 4 optional PoE |



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