



# SUPERMICRO AND IRONYUN COLLABORATE TO ADVANCE EDGE VISION AI SOLUTIONS

*Supermicro Edge Servers Empower IronYun Vaidio AI Vision Platform for Enhanced AI Video Analytics*



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Introduction

Supermicro and IronYun are working together to revolutionize edge AI video analytics. This fusion of cutting-edge hardware and sophisticated artificial intelligence (AI) software can transform industries by bringing advanced intelligence to any new or existing camera infrastructure. By combining Supermicro’s powerful edge servers with IronYun’s advanced Vaidio® AI Vision Platform, this partnership will deliver unparalleled flexibility, accuracy, and compute efficiency to a broad spectrum of applications spanning public safety to operational intelligence.

Supermicro and IronYun Collaboration

Supermicro, renowned for its innovative infrastructure solutions, offers a diverse range of servers optimized for AI edge computing. Supermicro’s modular architecture, designed to meet the demands of edge deployments, ensures reduced latency and minimal network traffic. The collaboration with IronYun leverages these strengths, creating a robust solution



where Vaidio software comes pre-loaded and licensed on Supermicro servers, significantly speeding time-to-value for customers.

### Revolutionizing Video Analytics with the IronYun Vaidio AI Vision Platform

The IronYun Vaidio AI Vision Platform employs advanced AI to analyze video streams, providing real-time alerts, forensic video searches, and statistical insights that improve safety, security, and operations across various sectors.

Key features of the Vaidio platform include:

- Real-time Video Analytics: Instantly detect and alert on events, objects, and conditions, enhancing security and operational effectiveness.
- Forensic Video Search: Efficiently search and analyze archived video footage to uncover critical information and support investigations.
- Business Intelligence: Extract actionable insights to optimize operations, traffic, crowd flow, and customer experience.
- Custom Model Tuning: Tailor AI models to specific applications, ensuring maximum relevance and accuracy.

### Supermicro Servers for AI Vision

Supermicro’s edge servers are ideal for AI workloads. Supermicro’s building block architecture allows deployment from the data center to the far edge. Compact form factors allow compute to be placed close to where the data is generated, which can reduce both latencies and network traffic, leading to better results.

Supermicro and IronYun provide a number of certified solutions for small, medium, and large installations. Processing power is optimized for each system and combines with Vaidio compute efficiencies to support more camera streams and analytics applications for each GPU.

	System	Form Factor	CPU Model	GPU Model	RAID	More Information
Small	SYS-111E-FWTR	1U	4th Gen Intel Xeon 5416S, 16C	1x NVIDIA L4	RAID 1	<a href="#">SYS-111E-FWTR</a>
Medium	SYS-E403-13E <i>(also available as an outdoor model)</i>	2U	Single 4 <sup>th</sup> Gen Intel Xeon 6430, 32C	2x NVIDIA L4	RAID 1	<a href="#">SYS-E403-13E-FRN2T</a>
Large	SYS-221HE-FTNR	2U	Dual 4 <sup>th</sup> Gen Intel Xeon 5418Y 24C	3 x NVIDIA L4	RAID 1	<a href="#">SYS-221HE-FTNR</a>
Extra Large	SYS-221HE-FTNR	2U	Dual 5 <sup>th</sup> Gen Intel Xeon 6530 32C	4x NVIDIA L4	RAID 1	<a href="#">SYS-221HE-FTNR</a>



## Rapid Deployment and Reduced Solution Cost

Vaidio software is pre-loaded and pre-licensed on Supermicro's edge servers to ensure rapid deployment. Vaidio can be deployed on Supermicro's edge servers in standard configuration or with a Kubernetes-enabled architecture. This flexibility supports scalability and seamless integration with existing infrastructure.

IronYun measures the July 2024 Vaidio 8.0 release as at least 40% more compute efficient than the prior 7.2 release. This significant improvement translates to reduced hardware requirements and operational costs. The joint solution should offer a compelling cost proposition for organizations seeking to maximize their ROI on AI video analytics.

## Broad Spectrum of Applications

The Supermicro IronYun solution provides greater capabilities, enhanced efficiencies, and deeper insights to improve public safety and operational processes for a wide range of industries and applications:

- Government: Enhance public safety through real-time surveillance, traffic management, and emergency response.
- Healthcare: Improve patient safety, equipment tracking, and operational efficiency with intelligent monitoring and analytics.
- Retail: Optimize store operations, enhance customer experiences, and reduce shrinkage through intelligent video surveillance.
- Transportation: Improve traffic flow, accelerate law enforcement response, and reduce traffic analysis costs with real-time video analytics and statistical intelligence.
- Education: Ensure campus safety with a holistic platform that offers intrusion, crowd, loitering, vape, smoke, fire, and vandalism detection and weapon detection – making the school environment safer and more secure even on a day-to-day basis and maximizing the return on video analytics investment.

## Conclusion

The collaboration between Supermicro and IronYun is poised to set new standards in the video analytics industry. The combined solution leverages the strengths of both companies, offering scalable, high-performance, and cost-effective AI vision systems that address the diverse needs of multiple industry sectors, from schools to hospitals to manufacturers to cities.

## For More Information

Supermicro Edge Portfolio - <https://www.supermicro.com/edge>

IronYun - <https://www.ironyun.com/analytics>

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## SUPERMICRO

As a global leader in high performance, high efficiency server technology and innovation, we develop and provide end-to-end green computing solutions to the data center, cloud computing, enterprise IT, big data, HPC, and embedded markets. Our Building Block Solutions® approach allows us to provide a broad range of SKUs, and enables us to build and deliver application-optimized solutions based upon your requirements.

For more information: [www.supermicro.com](http://www.supermicro.com)

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## IRONYUN

IronYun, recognized as a "Major Player" in Video Analytics and Video Analytics as a Service by IDC MarketScape in 2021 and 2022, is the proud creator of the Vaidio AI Vision Platform. Vaidio earned SIA New Product Showcase Awards for Commercial Monitoring, Video Analytics, and Loss Prevention in 2020, 2021, and 2023 and won Best New Product 2024 for the Vaidio 8.0 release. Vaidio adds advanced Vision AI to any camera and integrates with 30 market-leading VMSs. Vaidio delivers real-time monitoring and alerting, forensic video search, and rich business intelligence for city, school, retail, security, safety, operations, manufacturing, transit, transportation and logistics applications worldwide.

For more information: [www.ironyun.com](http://www.ironyun.com)