

Enabling Intelligent Stores – Edge Management



Centralized Control Across Distributed Locations

As retailers continue to expand and operate across distributed networks of stores, restaurants, and branches, the need for robust, real-time with AI-ready digital infrastructure is now well understood. Edge management solutions play a key role in enabling centralized deployment, monitoring, and control of applications and services across thousands of geographically dispersed locations. By positioning compute resources closer to where data is generated and used, these solutions reduce latency, maintain continuous operations, and accelerate ongoing digital transformation. Edge management platforms provide a consistent foundation for both legacy and next-generation applications, supporting virtualization, containerization, and IoT device integration. Centralized management tools allow IT teams to orchestrate updates, monitor system health, and enforce security policies from a single interface—whether in the cloud, on-premises, or at third-party data centers. This approach ensures that critical applications remain available and secure, even during connectivity disruptions.

Challenges of Managing Distributed Edge Infrastructure

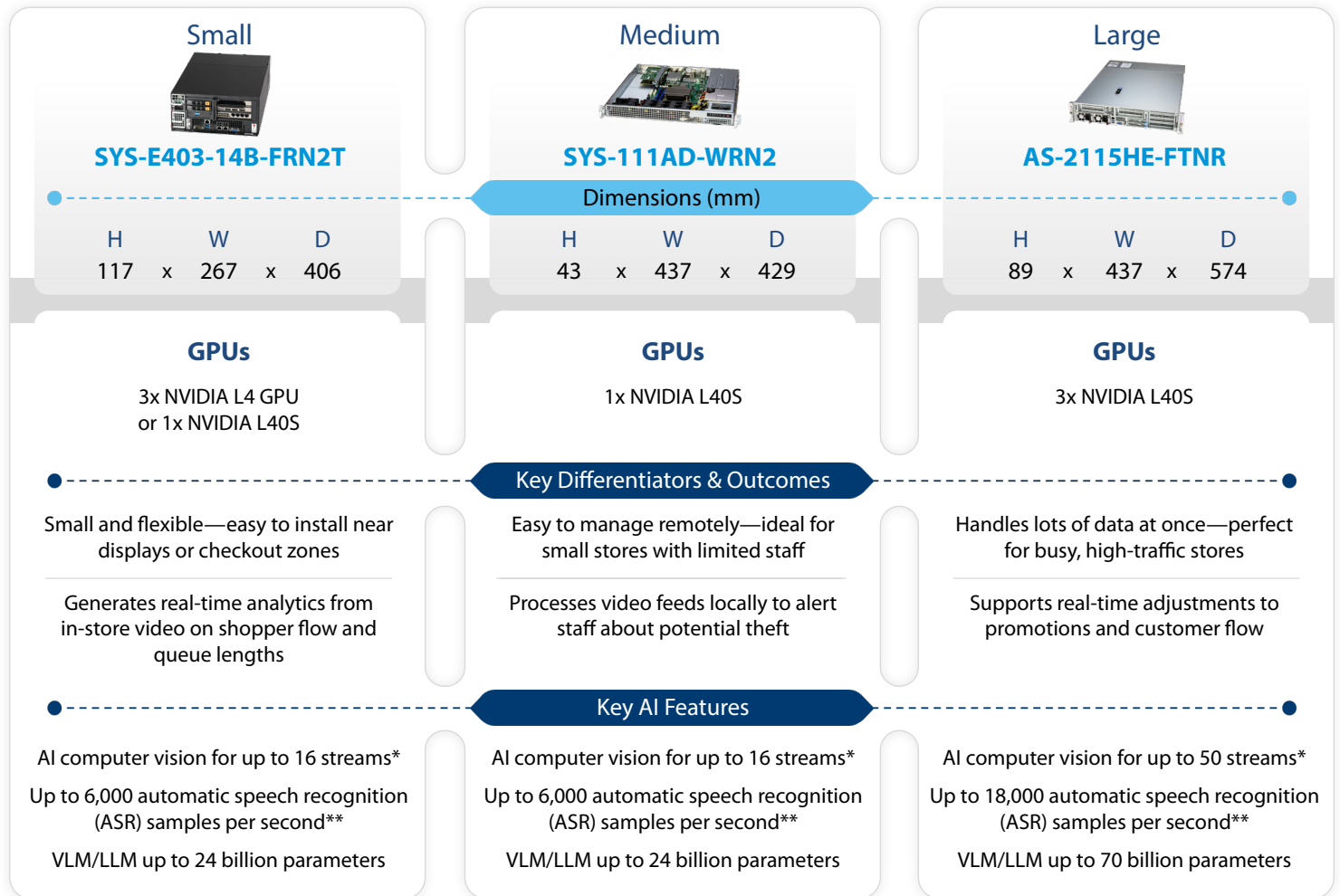
- Managing applications and services across distributed locations is complex.
- Limited visibility into remote systems delays issue detection and resolution.
- Manual updates and patching increase downtime and security risks.
- Disconnected systems hinder centralized orchestration and policy enforcement.
- Legacy infrastructure struggles with virtualization, containerization, and IoT integration.

Supermicro and NVIDIA AI-Ready Edge Management

- Enhances centralized monitoring and orchestration, giving IT teams real-time visibility into system health across locations.
- Supports automated updates and patching, reducing downtime and maintaining consistent security policies.
- Enables critical applications to remain available during connectivity disruptions, ensuring low latency and operational continuity.

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Supermicro Systems for Optimizing Edge Management



* Based on image classification model similar to EfficientNet-B4

** Based on using an ASR model like QuartzNet



Supermicro Systems Accelerating Your AI journey

Supermicro's AI-ready infrastructure solutions enable large-scale training to intelligent edge inferencing, allowing retailers to streamline and accelerate AI deployment. Their AI-infrastructure empower workloads with optimal performance and scalability while optimizing costs and minimizing environmental impact.

Supermicro and NVIDIA deliver scalable, edge-ready infrastructure that brings AI to life in every retail environment.. Built on NVIDIA Enterprise AI Factory-validated designs, this partnership provides the foundation to run advanced AI workloads in stores, while addressing real-world constraints such as limited space, power efficiency, and cooling. By simplifying deployment and enabling real-time insights, retailers can reduce shrink, optimize staffing and operations, improve product availability, and enhance the customer experience—unlocking productivity gains and building future-ready stores.

For more information, visit: [Supermicro.com/IntelligentStore](https://www.supermicro.com/IntelligentStore)