

Enabling Intelligent Stores – Loss Prevention



Loss Prevention in the Age of Intelligence

Every retailer, no matter the size or format, experiences shrink. It shows up in many forms—mis-scans at checkout, damaged goods, stockroom errors, or intentional theft—and together these small leaks silently drain billions in revenue each year. While theft often gets the spotlight, it's only one part of a much wider challenge. The real picture is far more complex, spanning accidental mistakes, process gaps, and systemic blind spots across the store and supply chain.

Reducing shrink is one of the fastest ways to recover lost revenue, yet it's often overlooked compared to driving new sales. The ability to do this at scale, in real time, simply isn't possible without Edge AI—analyzing video and sensor data on the spot to flag issues the moment they occur. This edge intelligence helps retailers distinguish accidents from deliberate acts, remedy problems before they escalate, and maintain a smoother experience for shoppers and staff.

Challenges of Legacy Loss Prevention Approaches

- Manual monitoring delays theft detection.
- Isolated cameras limit visibility and obscure patterns.
- Post-incident reviews slow response and recovery.
- Legacy systems create false alarms and wasted effort.
- Limited analytics hinder proactive loss prevention.

Supermicro and NVIDIA AI-Enhanced Loss Prevention

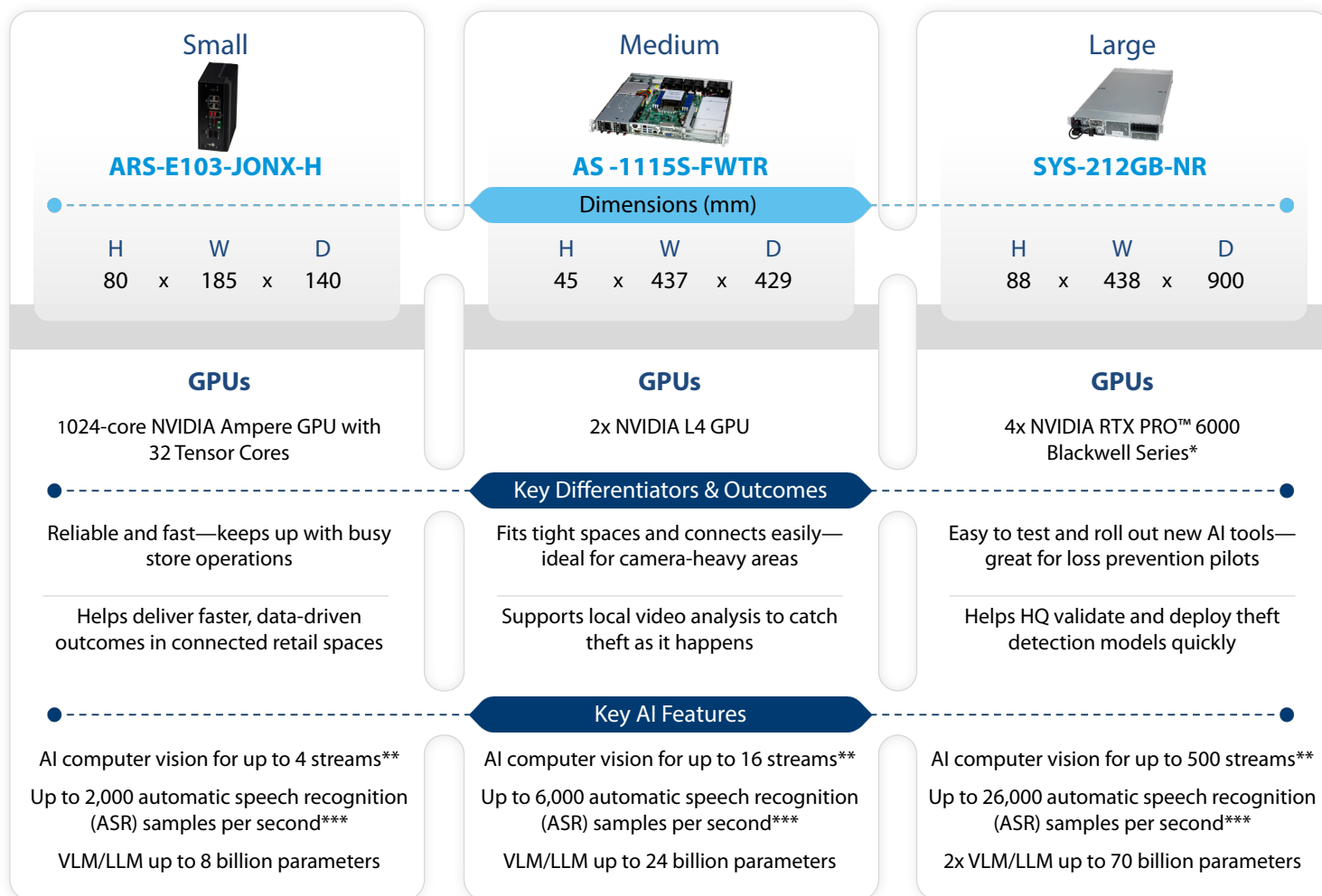
- Enhances real-time detection of theft and mis-scans at checkout.
- Converts store management from reactive to proactive to help staff address issues in real-time.
- Enables low-latency detection while maintaining data privacy.

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Supermicro and NVIDIA collaborate with software partners like Everseen, whose Evercheck solution leverages Vision AI to reduce shrink and streamline front-of-store operations while enhancing the customer experience. [Learn more about Everseen](#)

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Supermicro Systems for Enhancing Loss Prevention



* NVIDIA RTX PRO™ 6000 Blackwell Server Edition @400w or NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition

** 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)