

SIGMA Elite

SIGMA
ECOSYSTEM

SIGMA Elite is Speedcast's most advanced edge computing and AI-enabled platform, purpose-built for demanding environments that require real-time intelligence, ultra-high bandwidth, and scalable compute at the edge.

Combining high-performance computing, GPU-powered Edge AI, and cloud-native orchestration, SIGMA Elite enables organizations to process, analyze, and act on data directly where operations happen—unlocking faster decision-making and greater operational efficiency.



High-Performance Edge Computing

Designed for intensive workloads, SIGMA Elite provides server-grade compute power to run complex application environments at the edge, including:

- AI/ML inference
- Industrial applications
- Real-time analytics
- Virtual desktop infrastructure (VDI)



GPU-Powered Edge AI

Harness optional GPU acceleration to enable low-latency AI processing directly on-site, supporting use cases such as:

- Computer vision
- Predictive maintenance
- Automation and monitoring systems

This enables real-time insights without relying on cloud backhaul, reducing latency and bandwidth usage while accelerating decision-making.



Ultra-High-Bandwidth SD-WAN

SIGMA Elite supports high-capacity, multi-orbit connectivity, integrating:

- Starlink
- OneWeb
- Emerging LEO constellations (Amazon Leo & Telesat)
- VSAT and cellular: Delivering high-speed multipath connectivity for data-intensive edge applications and real-time processing.



Cloud-Native Edge Orchestration

Leverage SIGMA's orchestration platform to:

- Deploy and manage applications remotely
- Automate updates and lifecycle management
- Control distributed edge infrastructure from a single interface

This enables scalable, policy-driven operations across thousands of endpoints.



Virtualized Edge Platform

Run multiple workloads on a single platform:

- Virtual machines (VMs)
- Containerized applications
- Network functions

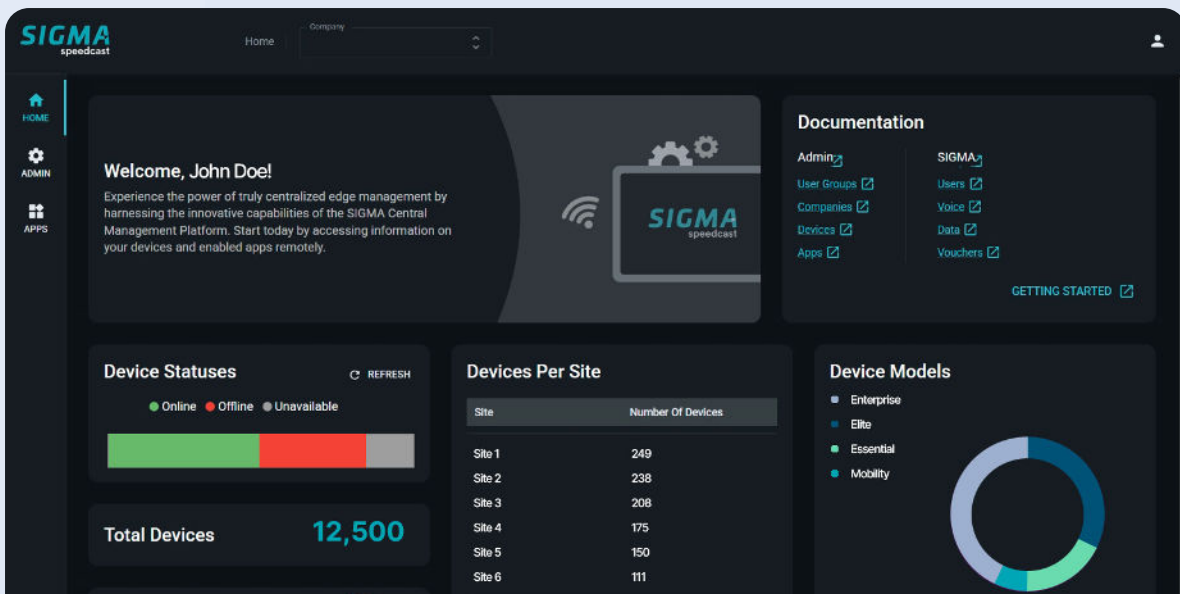
This reduces hardware complexity while enabling flexible, scalable edge deployments.



Enterprise-Grade Security & Isolation

Built with a secure architecture designed for critical environments:

- Isolated operating system for workloads
- Hardware-based protections
- Secure boot and access control
- Compliance-ready infrastructure ensures safe deployment of sensitive applications in remote locations.



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Product Specifications



Dell PowerEdge XR5610



Specification	SIGMA ELITE (24C) SERVER	SIGMA ELITE (32C) SERVER
CPU: Xeon Gold	5412U [24C/48T, 2.1G, 185W]	6438N [32C/64T, 2G, 205W]
Memory	128GB up to 2TB	128GB up to 2TB
Boot Drives (BOSS)	2x 480GB M.2	2x 480GB M.2
Storage	2x1.92TB [SSD SATA]	2x3.84TB [SSD SATA]
TPM 2.0	YES	YES
Dual PSU	YES	YES
Soft RAID	YES	YES
Ethernet	8x1Gbps	8x1Gbps
SFP	4x25Gpbs	4x25Gpbs
PSU	1100W (Dual Redundant)	1100W (Dual Redundant)

