

AI PLUG & PLAY MOBILE EDGE DATA CENTER

THE IT CHALLENGE

The rapid growth of AI is increasing the demand for data storage and real-time data analysis at the Edge. Organizations need scalable, secure, and sustainable infrastructure on premises that remains cost-effective – especially in remote or underserved areas. Traditional data centers are expensive, slow to deploy, and environmentally taxing, while Edge computing demands scalability, proximity, reliability, and speed. Customers struggle to manage data-intensive applications including AI, private 5G, and IoT without incurring high latency, excessive energy costs, and complex operations.



BUILT, SHIPPED AND INSTALLED IN 24 WEEKS

THE MOST SUSTAINABLE HIGH-PERFORMANCE EDGE SYSTEM

The Kais-AIR® + Swiss Vault system is the first scalable mobile Edge Data Center platform engineered for ultra-low carbon, self-managing performance. Combining factory-built data center modules with resilient, AI-ready storage, it enables high-speed digital services in the most remote, underserved, or rugged environments—without traditional infrastructure costs or delays.

WORLD'S LEADING ENERGY EFFICIENT / PUE AND SUSTAINABLE EDGE DATA CENTER

KAIS-AIR® MODULAR DATA CENTER

All-in-One: Turn-key Plug & Play configured data center with 100 KW IT load, air cooled

Rack Space Capacity: 13 racks, 52 U (32" wide)

Cooling: N+1 air cooled, PUE 1.12

Power: Integrated UPS and distribution, 480V 3-phase. Backup DC power & electricity generation optional

Scalable: Drop-in scalable units to expand capacity at Edge, enable Geo-distribution

SWISS VAULT TECHNOLOGY STACK

SuperNAS Nodes: 2U servers with 12-disk bays, individually addressed disks

VaultFS (Vault File System): Linux-based software with Erasure Coding. Self-managing data storage, lowest overhead, fast data speed.

Ergonomic Design: Server operates below 20 dB/a noise (near silent) and consumes just 300 Watts per Petabyte of data

Excellent Geo-distributed capability out of the box (increases data resilience)



THE MOBILE EDGE DATA CENTER

The Kais-AIR® + Swiss Vault solution delivers the world's most sustainable, high-performance mobile edge data center — designed for ultra-low CO₂ emissions and rapid deployment across the globe. Fully integrated and self-managing, it brings secure, resilient compute, data storage, connectivity, and the Power of AI to rural communities, hospitals, and remote industry locations. The combined solution promises the lowest data center operating CO₂ emissions, Geo-distributed to maximize uptime & reliability.



KAIS-AIR® | VALUE PROPOSITION

Kais-AIR® delivers a game-changing approach to edge infrastructure with its modular, mobile data centers—engineered as fully integrated Plug & Play "data centers in a box." Custom-built to client specifications and shipped within 24 weeks, these Tier II-III-compliant units arrive factory-tested, configured, energy-optimized, and installation-ready. Whether deployed in remote regions, industrial sites, or urban infill, Kais-AIR® empowers organizations to bypass traditional construction delays and deploy secure, high-performance compute and storage anywhere—with unmatched speed, flexibility, and sustainability.

EDGE DATA CENTER BUSINESS VALUE

CAPABILITY	BUSINESS BENEFIT
Geo-distributed Redundancy	Mitigates risk from localized disasters (fire, flood, etc.)
Low-latency Access	Enables real-time AI applications and storage
Energy-efficient Operation	Reduces long-term TCO and supports ESG goals
Self-managing infrastructure	Remote monitoring, data integrity maintained



Contact us to schedule a technical demo or partner briefing: datacenters@gkcorp.com or info@swissvault.global.

SWISS VAULT | VALUE PROPOSITION

Swiss Vault redefines data infrastructure by combining intelligent S3 capable software with modular, energy-efficient hardware to create a high-performance, self-managing data center platform. Vault File System (VaultFS) enables parallel, distributed data processing that accelerates performance while ensuring data integrity—even in harsh edge environments. With built-in resilience against hardware failure, automated data healing, and ultra-low power consumption, Swiss Vault's solution slashes operational & maintenance costs, extends hardware lifespan, and eliminates complexity—making sustainable, secure, and scalable data storage effortless.

BENEFITS OF SWISS VAULT SOFTWARE & HARDWARE

METRIC	RESULT
Data Throughput	10X faster read / write (compare to legacy NAS) at PB scale
Storage Efficiency	50% reduction in total data volume, store more in less space
Energy Use	Reduced by 50%, improving sustainability footprint
Data Protection	Automated healing, bit-rot correction and parity checks
Productivity Gains	Self-sustaining for resilient data when disks or servers fail