

PORTABLE EDGE DATA CENTER

Edge Infrastructure for Retail Chains
& Franchise Operators



Turnkey IT for Distributed Retail
- No IT Staff, No Stress

Datacenter-Grade Reliability for Retail & Franchise Networks

Scaling Retail Operations Made Simple

Retail and franchise networks run complex, real-time systems - POS, Inventory, Digital signage, Smart surveillance, IoT (asset tracking), Store analytics, etc - across hundreds or even thousands of sites. Yet most of these locations lack IT staff, server rooms, or consistent connectivity.

The HiveRadar Portable Edge Data Center (P-EDC) delivers full datacenter capabilities in a self-contained 4U unit. Can be shipped preconfigured and plug-and-play ready, it requires no IT expertise to deploy, giving every retail store, gas station, or QSR franchise the reliability of a Tier-1 datacenter - without the cost, complexity, or dedicated staff.



Why Resilience Matters



Recent cloud outages - including the Amazon AWS disruption - brought retail, banking, healthcare systems and a fleet of smart IoT gadgets to a standstill worldwide. Major retail and QSR chains went offline, POS terminals froze, payments failed, smart mattresses overheated, and even medical appointments couldn't be booked. These incidents exposed a critical weakness in cloud-only architectures: when connectivity to the cloud is lost, so is business continuity.

The HiveRadar Portable Edge Data Center (P-EDC) bridges that gap through a hybrid edge-cloud architecture. It caches and processes transactions locally, ensuring uninterrupted operation for POS, surveillance, and access systems even during major cloud or ISP outages. Once connectivity is restored, data automatically syncs back to the cloud without manual intervention. This low-latency, high-resiliency hybrid design keeps revenue and operations flowing - proving that the edge is not just an extension of the cloud, but the foundation of digital uptime.

The ROI: Proven Labor & Cost Savings



Initial Rollout Savings

Traditional site deployments often require multiple contractors — general builders for mounting, certified electricians for power, IT technicians for cabling, and field engineers for setup and configuration — a process that can take 1 to 4 days per site. The HiveRadar P-EDC streamlines this entire workflow, reducing deployment time to under 30 minutes and saving hundreds of labor hours across large-scale rollouts.

Ongoing Support Savings

With centralized monitoring and modular swap-outs, 90% of service calls no longer require a technician visit.

Typical savings

- **\$1,000+** per avoided site visit
- **\$50,000–\$150,000+** per 100 sites annually in reduced field support labor

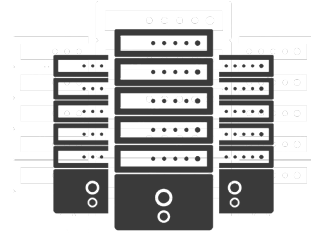
Energy & Space Savings

Lower power draw and compact footprint free up valuable retail space while cutting energy costs significantly compared to legacy server rack deployment.

Legacy Deployment vs. HiveRadar Portable Edge Approach



New Way (HiveRadar P-EDC)



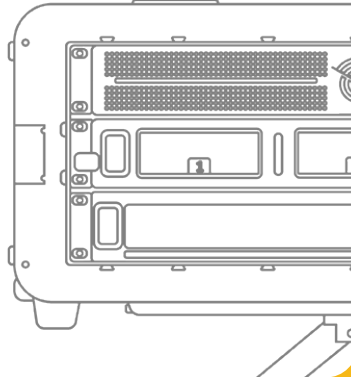
Old Way (Legacy)

	New Way (HiveRadar P-EDC)	Old Way (Legacy)
Deployment Complexity	One-Person, One-Cable Setup Can ship fully configured. Deploy, Plug in power and network - live in under 30 minutes. No technicians needed.	Multiple vendors, hardware shipping, racks assembly/installation, cabling, etc require on-site technicians required. Rollouts can take 1-5 days per site.
Support Costs	Standardized for easy support Preconfigured standardised setup, remote monitoring dashboard*, updates, and automation can eliminate or reduce on-site visits by up to 90%.	Requires site visits for patching, hardware swaps, and troubleshooting. Each dispatch costs \$1,000–\$2,000+ in labor, travel and downtime.
Space & Power Requirements	Low power footprint, fits in small space and can also be mounted on walls*, integrated cooling with significant savings on utility bills	Traditional Racks require assembly, mounting, cabling. Time consuming and assuming all hardware arrived undamaged. Traditional servers have higher cooling power requirements.
Connectivity and Security Challenges	Built-in support hardwired ISP line, 5G/Starlink + optional encrypted SD-WAN aggregation ensures always-on connectivity and resiliency. PCI DSS compliance with security gateway by default	Single ISP reliance creates downtime during outages, breaking POS and payment systems.
Application and Data Resiliency	Node redundancy ensures compute and storage is always available even with a node failure. All-flash up to 96TB+, with secure local retention and automated HQ sync.	Hardware with spinning drives, or old school RAID setups may need manual intervention by IT. USB disk drive prone to loss/theft; compliance management inconsistent across sites adding to higher training and support costs.
Cloud Dependency & Cost	Combines local compute and caching at the edge with seamless cloud integration. Delivers cost predictability, lower latency, and built-in resiliency, ensuring operations continue even during major cloud or network outages.	Cloud-only architectures introduce unpredictable costs, especially when maintaining high availability across multiple datacenter zones. Worse, a cloud outage can bring your entire operation to a halt, freezing POS systems and disrupting transactions. Fixed Infrastructure Limitations.
Move & Relocation	The P-EDC can be safely powered down, packed, and rolled out in minutes. Designed for rapid evacuation, redeployment, or relocation, it protects valuable data and keeps operations moving - wherever business needs to go.	Traditional rack-based infrastructure is time-consuming to dismantle and risky to move. During office relocations or approaching storms, systems are often left exposed and transported without protection, leading to equipment damage, data loss and extended downtime when redeploying with complicated cabling.

KEY FEATURES & ADVANTAGES

Built for Rapid Store Rollout

Designed for fast-moving franchise operations, the HiveRadar P-EDC delivers data center-grade reliability in a single, easy-to-deploy unit. It's prewired, pre-tested, and includes a cloud-managed PDU, switch, and 2-4 node cluster. With the choice of 5G and Starlink connectivity, it brings high performance and redundancy to every store, no on-site IT required.



True Plug-and-Play Deployment

Pre-imaged and ready to go - no racks, no assembly, no IT staff required. Reduces rollout labor from days to minutes.

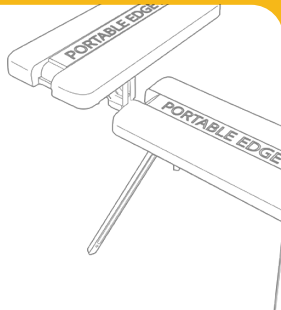


Secure, Compliant Networking

Integrated PCI-DSS compliant 5G gateway and multi-ISP SD-WAN ready for secure, resilient connectivity.

Always-On Local Compute

Keeps POS, cameras, and access systems running even during outages. Syncs automatically once connectivity resumes.



Compact & Rugged Design

4U ruggedized chassis fits tight retail spaces. Lid converts into a mobile tech bench for field work.

Low Power Consumption

Operates efficiently on standard power or with HiveRadar approved off-grid portable UPS (1kWh-48kWh); supports solar or dual-fuel backup.



SIMPLIFIED DEPLOYMENT



- **QSR & Fuel Stations**
Maintain POS and surveillance uptime even during network or power interruptions.
- **New Store Launches**
Standardize IT rollouts—deploy infrastructure in minutes instead of days, cutting labor costs by up to 80%.
- **Franchise Expansions**
Rapidly onboard new franchisees with pre-tested, pre-secured, plug-and-play units.
- **Temporary & Seasonal Sites**
Easily relocate or reuse systems for pop-ups, kiosks, and special events.
- **Disaster Recovery & Replacement**
Ship a fully pre-configured replacement to a damaged site and restore operations within hours.
- **Remote Satellite Offices**
Provide datacenter-level compute, storage, and connectivity in small, IT-staff-free branches.

CONCLUSION

The HiveRadar Portable Edge Data Center (P-EDC) gives retail and franchise operators a smarter, more resilient foundation for distributed IT. In a world where cloud outages can halt transactions, payments, and even critical services, a hybrid edge deployment ensures operations stay online, secure, and compliant.

It's datacenter reliability without the datacenter overhead -

delivered in a box you can carry, deploy in minutes, and manage from anywhere.



Stay Connected



Stay compliant.



Scale with confidence.

CONTACT US

TO SCHEDULE A DEMO,
proof of concept, or trial deployment
tailored to your operational needs.

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