



PORTABLE EDGE DATA CENTER

Solution Brief for Remote Field Operations

Redefining Field
Mission Capability



Compute Anywhere. Sync Everywhere. Operate Without Limits.™

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Redefining Field Mission Capability

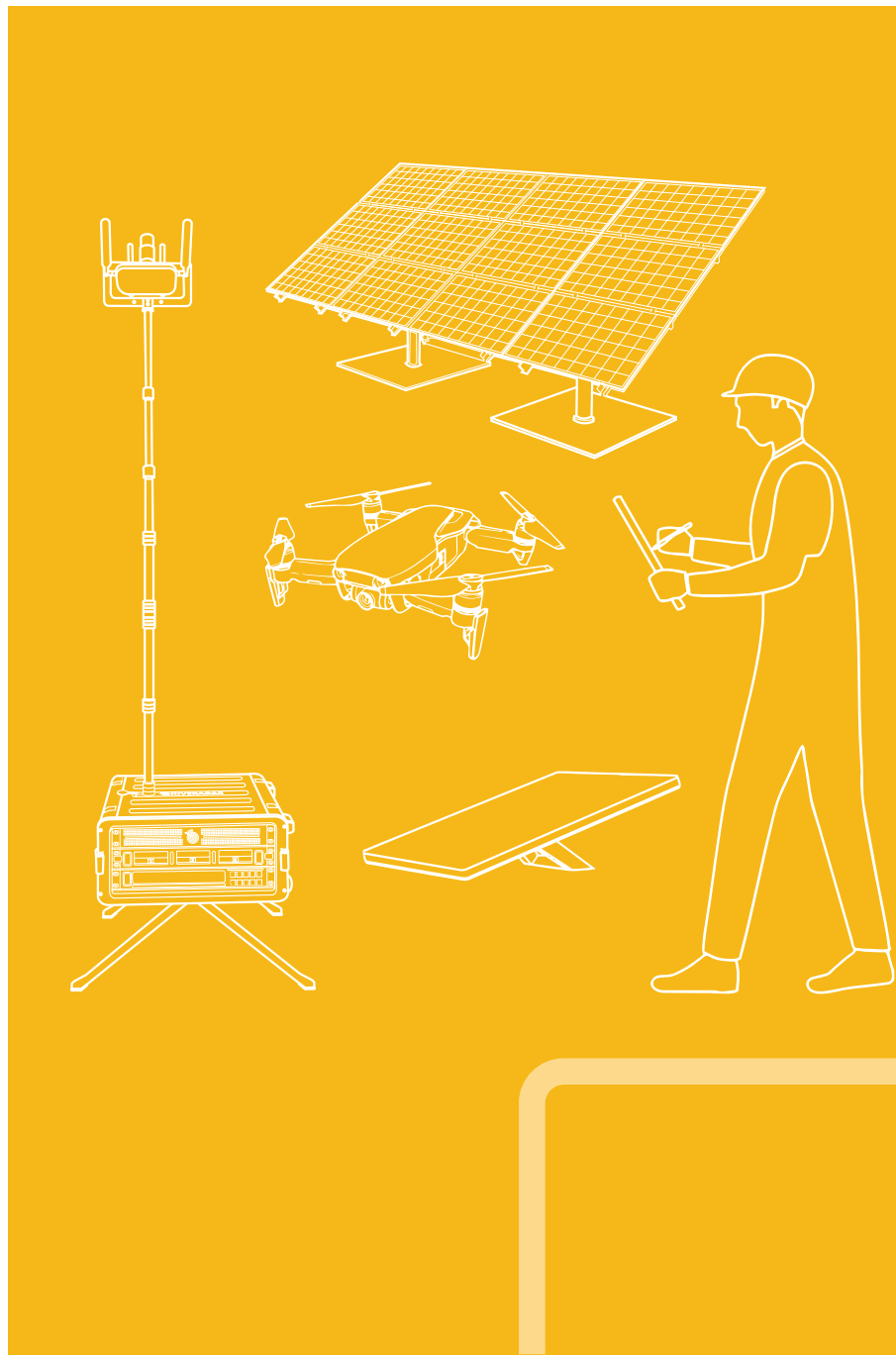
OVERVIEW

The **HiveRadar Portable Edge Data Center (P-EDC)** delivers full-scale data center capability in a single rugged, portable unit, built for demanding field environments where traditional infrastructure does not exist.

It unifies **compute, storage, networking, and connectivity** so remote teams can securely collect, process, and synchronize mission-critical data anywhere on Earth.

Even in the absence of cellular networks, the P-EDC includes **integrated Starlink storage** for rapid deployment. With HiveRadar's optional bi-directional aggregation technology, multiple Starlink units and 5G gateways can be bonded to provide high-bandwidth, resilient connectivity with static IPs and end-to-end encryption - ensuring uninterrupted data flow between remote sites and command centers.

The system also supports local high-throughput wired or low-latency wireless connectivity for field teams, enabling seamless collaboration and device access. Connectivity can be further enhanced with **Private 5G cellular networks**, deployed through HiveRadar's technology partners, for secure, scalable field communication grids.



Core Capabilities



AI Supercompute (coming soon)

- Powered by NVIDIA GB10 processors for high-performance inferencing and modeling in the field.
- Execute AI workflows - object detection, environmental modeling, pattern recognition - without cloud connectivity.
- Enables autonomous decision-making, on-site analytics, and real-time situational awareness.



Multi-Link Connectivity & Encryption

- Bonds multiple Starlink Mini and 5G connections for greater bandwidth and resilience.
- Provides static IP addressing and encrypted VPN tunnels for secure global access.
- Designed for seamless interoperability with HiveRadar's Private 5G partner ecosystems.



Cloud Sync & Centralized Storage

- Eliminates the need for personal drives or external storage devices.
- Automatically synchronizes data to the cloud once connectivity is established.
- Ensures version control, redundancy, and data security across distributed missions.



Rugged & Rapidly Deployable

- Weather resistant, shock-resistant, and field-tested.
- Deployable in minutes.



Edge Compute

- Centralized compute and storage for field operations.
- Process telemetry, drone, and sensor data locally, reducing latency and backhaul costs.



Off-Grid Power Ecosystem

- Ultra-efficient low-power design.
- Integrates with HiveRadar Smart Battery Systems, Solar Arrays, and Dual-Fuel Generators.
- Optional Portable Air-Conditioning Modules maintain stability in harsh conditions.

Sensors

P-EDC
(Compute / AI / Storage)

Cloud / Command Center

**Starlink
Bonding / 5G
/ Private 5G**

USE CASE SCENARIOS

Exploration & Research Teams



Geological, Geochemical & Archaeological Surveys

Process survey and mapping data on-site. Aggregate drone imagery and telemetry locally; sync securely to remote labs and data repositories.



Flora & Fauna Studies / Biodiversity Projects

Collect camera trap, drone, and sensor data to classify species, monitor habitats, and detect environmental changes in real time.



Ocean & Marine Exploration

Operate as the nerve center aboard research vessels, aggregating sonar, ROV, and telemetry data. Provides onboard analytics and real-time satellite synchronization for marine research or fisheries monitoring.

Exploration & Research Teams



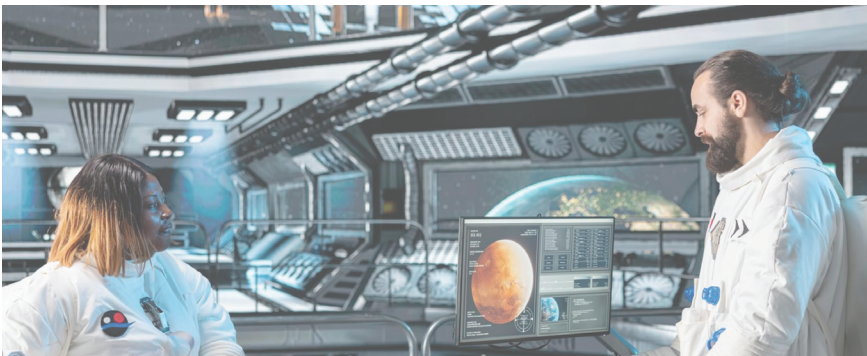
Polar & Arctic Missions

Maintain autonomous command, communication, and data processing capabilities in low-temperature and low-infrastructure zones.



Adventure & Extreme Journeys

Enable mountaineering, volcanic, and desert operations with local edge compute, secure communications, and high-speed team connectivity.



Space & Off-World Simulation Bases

Support lunar and Mars simulation environments with onboard AI and networking - replicating autonomous base operations in hostile, infrastructure-free terrain.

CONCLUSION

The HiveRadar P-EDC redefines what's possible for remote operations - delivering AI-ready computing, resilient connectivity, and secure cloud synchronization in one portable, ruggedized system.

From polar research bases to deep-sea vessels and expeditionary camps, it fuses

**THE POWER OF THE CLOUD, THE INTELLIGENCE OF AI,
AND THE RESILIENCE OF THE EDGE.**

CONTACT US

FOR MORE INFORMATION, pricing, or to discuss your deployment requirements.

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