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Oracle Roving Edge Station

Expeditionary edge computing, mobile and secure.

Extend cloud resources in an expeditionary data center solution. Satellite communication capabilities provide secured and reliable connectivity to run mission-critical applications in areas with little-to-no connectivity.

Deploy Data-intensive Workloads Where You Need It

The Station is a self-contained mobile datacenter designed with US Department of Defense and IC standards in mind to enable accreditation of classified workloads with the flexibility to house Roving Edge Infrastructure nodes, Compute Cloud@Customer, Exadata Cloud@Customer, Oracle Private Cloud Appliance, ZFS Storage products, and Sun x86 hardware. The Station is also capable of supporting other customer equipment needed for applications or missions.

An integrated solution with power management, UPS, cooling, and fire suppression system.

Extensive security including card or biometric system, alarms, cameras, and EMI filters for classified operations.

A compact 25' expeditionary data center sized at to be transportable via military aircraft, ship, or truck.

Networking gear for local runtime, mount points for StarLink Satellite dishes, FastConnect VPN option to link to an OCI region.

Oracle Roving Edge Station is a secure expeditionary data center enabling applications in the field, connected or disconnected.

Unified OCI User Experience

OCI hybrid cloud solutions provide developers and IT managers with the same APIs, familiar user interfaces, and management tools that will have the same look and feel for a consistent user experience. This makes it easy for organizations to develop, deploy, secure, and manage a single software stack across a wide range of distributed cloud environments.

Station Use Cases

- Edge/ Mobile command, control, communications, and computing (C4)
- Disaster relief, emergency response services, and humanitarian assistance
- Support mobile, disconnected, or remote hospital operations
- Large capacity data analysis for mining and mineral exploration, extraction, and operations
- Manage AI/ML closer to data source, proliferation of sensors and the data generation can be analyzed and filtered at location to reduce latency problems and bandwidth cost
- Use to run operations during construction or for manufacturing sites without datacenter space

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Technical Specification

Physical Specifications
- 25' - 6" x 8' - 2" x 8' - 5" (L x W x H), ~35,000 Lbs.
- Internal Bracing allow moving and vibration

Equipment Racks
- 2 x 42RU Racks

MIL STD Compliance
- Shielded and EMI Filtered for MIL-STD-461 emanation abatement

Fire Protection
- Active fire protection: 3M™ Novec™ 1230 based onboard fire suppression system with VESDA heat and smoke detection and 3 smoke detectors

IT load
- 24kW

Cooling Technology
- Cooling technology is PX in N+1 configuration (general)

Power System
- Liebert® EXM power system topology is N+1 with a redundant 20 kVA power module inside the UPS providing 14 min EOL UPS autonomy time for critical load

UPS System Capacity
- 40 kVA (N+1)

PDU/Redundant Power Model
- 24kW
- Vertiv™ Geist PDUs: VP8867: Monitored, Vertical, IEC60309 3 Pole, 4 Wire, IP44, 60A, 208V Delta, (30)C13

External Communications
- Standard Ethernet connections and 2 mounting points for optional StarLink Satellite dishes or point-to-point devices to provide field communications
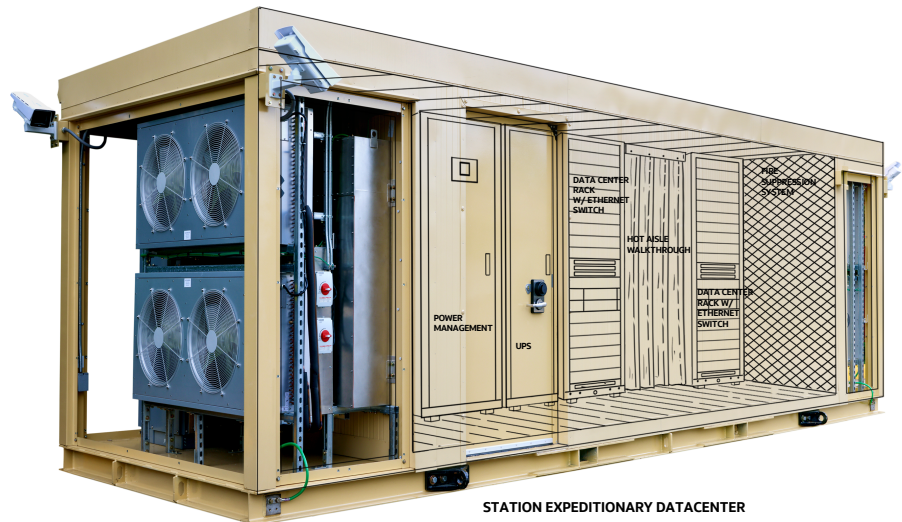
Controls and Security
- Environmental monitoring server

Access Controls
- 2 forms of authentication in a single terminal: Biometrical sensor and card reader + PIN
- Additional GSA Approved X-10 main entrance lock

CCTV
- 4x exterior cameras and 2x interior cameras with DVR

STATION EXPEDITIONARY DATACENTER

Connect with us

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