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Roving Edge Ultra

Oracle Roving Edge Ultra is a ruggedized, portable hardware platform providing cloud-integrated services that enable OCI cloud compute and storage at the edge of networks and in disconnected locations.

OCI enables customer workloads and applications to run in various cloud environments - public, distributed, or multi-cloud. Solutions are needed at the Edge to support the volumes of data generated by internet of things (IoT). Roving Edge enables this data to be processed at the edge to perform real-time data analytics for actionable insights.

A robust edge infrastructure can help organizations drive forward to a digital future, that promotes innovation, further optimize cloud capabilities, and creates efficiencies.

Extend Cloud Capabilities to the Edge

Meet the demands of performance, reliability, and security

Oracle Roving Edge Infrastructure is a cloud-integrated service built to run mission critical, time-sensitive applications at the edge. Roving Edge provides an ecosystem of Oracle IaaS services deployed outside of the data center which allows you to run virtual machines from your cloud tenancy.

This enables low latency processing closer to the point of data generation and ingestion, resulting in more timely insights into your data.

Oracle Roving Edge Infrastructure can independently store, collect, and process large datasets to accelerate tactical decision-making for today's modern missions even in the most remote and austere environments.

Develop once, run anywhere

Build and test workloads or AI/ML models in the cloud then deploy to the edge.

Common platform

Same CLI, APIs, and WebUI with the same look and feel giving customers a unified experience at the edge.

Seamless data transfer

Sync data to and from the edge to the cloud.

Rich portfolio of applications

Bring a portfolio of applications with low-latency access to the edge including Oracle Database, MySQL, WebLogic, Golden Gate, Oracle Application Server, WebLogic, and AI/ML Solutions, Smart Anomaly detection with MSET, industry applications, and more from Oracle and third parties.

Roving Edge Ultra is a lightweight, ultraportable device, battery- operated or VDC power, that can be carried or mounted for your use case.

Integrated Software and Hardware

Oracle Roving Edge Infrastructure provides core IaaS and platform services that enable customers' Oracle Cloud workloads to be executed on Roving Edge Ultras and Roving Edge RED Devices.

To deploy onto the edge nodes, users develop, test, and validate their workloads and applications in the Oracle Cloud environment, and then transfer them to the edge nodes at provisioning via the Oracle Cloud Console.

Customers can use existing licenses to build and move images with Oracle Database or Analytics to the edge nodes for field processing.

Once deployed, customers can synchronize object storage between the edge nodes and cloud when a network connection is available.

Key Benefits

- Low-latency intensive data processing capability, removing data upload bottlenecks, and ensuring data sovereignty.
- Ability to run time-sensitive custom apps in locations typically lacking consistent network connectivity.
- All-environment optimized device – ruggedized, portable, and scalable
- Unified customer experience across OCI and Oracle Roving Edge Infrastructure makes adoption, control, and management effortless.
- Cost-effective edge solution that extends OCI functionality for Oracle Cloud and other applications and ensure regulatory compliance

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Device Specifications

PHYSICAL SPECIFICATIONS

- 7.4" L x 6.3" W x 2" H, 3.75 lbs. (1.7 Kg).
- With battery pack - 7.4" L x 7.95" W x 2" H, 4.80 lbs. (2.18 kg)

ELECTRICAL / POWER

- 55 W / 9 - 36VDC
- Battery pack options
- Voyager 1+: 120 W power output with 65 Wh battery backup power

CPU

- Intel Xeon CPU D-1559 6230T @ 1.50Ghz
- 12 total cores (8 cores usable)

MEMORY

- 96 GB DDR4 (64 GB usable)

STORAGE

- 7.68 TB raw

NOISE LEVEL

- < 60 dB

NETWORK INTERFACE

- 2x 1 GbE (1 active)

SECURITY

- TPM, Trenchboot SecureBoot
- Physical Tamper Evidence
- Removable Ignition Key

COMPLIANCE

- FIPS 140-2 Level 2, MIL-STD-810H, MIL-STD-461F

OPERATING TEMPERATURE

-20 C to 50 C (-40 C to 85 C storage)

To order Oracle Roving Edge Infrastructure or to learn more about other products in this family, visit oracle.com/cloud/roving-edge-infrastructure/

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