

Roseburg Data Center



Roseburg is ideally located to serve as a primary data center for communities throughout Central and Southern Oregon, Northern California, and anywhere along the coast.

The facility offers a disaster recovery location for other areas requiring a more distant geographic diversity.

The Roseburg facility is built to Tier III standards, meeting the highest quality requirements. It is directly located on major fiber routes giving it optimal connectivity. The facility is carrier-neutral with fiber connections to DFN, LSN, Charter, CenturyLink and Level (3).

Due to the ancient bedrock below the soil in the area, the facility is seismically stable with a low risk of earthquakes. It is outside of the 100 year floodplain, and in the Umpqua Valley which enjoys more moderate weather and temperatures than the Willamette Valley. It is also uniquely located on sovereign land of the Cow Creek Band of the Umpqua Tribe which may offer additional tax benefits.

Facility Specifications

- Built in 2012, premium data center office and colocation space totaling 12,500 sq. ft.
- Data center/colocation floor space 5,000 sq. ft.
- Redundant N+1 power and cooling services specifically optimized for high-density deployments
- Multiple provider availability offering access to Tier 1 internet service
- Diverse fiber infrastructure available
- Customizable floor space to accommodate connectivity designs

Building Access and Security

- 24x7 escorted on-site entry
- Alarm system with secure video surveillance throughout the facility
- Multi-level access authorization with card control and biometric verification level access

Power Generation

- Redundant diesel generators
- Significant fuel supply availability to ensure continuous operation in the event of a long term utility power failure

Cascade Divide Data Centers **White Paper**

Electrical Power Infrastructure

Phase 1a (Complete)

- 500Kw diesel generator(s) (N+1)
- 225kVA UPS with internal N+1 configuration
- 51 tons (N+1) cooling data center
- 200kW (IT loads) data center
- 3 tons (N) cooling electrical room
- 6 tons (N+1) cooling cross-connect room
- 20kW (IT loads) cross-connect room
- Power Utilization Efficiency (PUE) 1.27

Phase 1b

- 750kVA UPS (N+1)
- 171 tons (N+1) cooling data center
- 675kW (IT loads) data center
- 9 tons (N) cooling electrical room
- 11 tons (N+1) cooling cross-connect room
- 40kW (IT Loads) cross-connect room
- Power Utilization Efficiency (PUE) 1.29

Phase 2

- 500kVA UPS (N+1) electrical room
- 1,100kVA UPS (N+1) UPS room
- 540 tons (N+1) cooling data center
- 1,480kW (IT loads) data center
- 9 tons (N) cooling electrical room
- 12 tons (N) cooling UPS room
- Power Utilization Efficiency (PUE) 1.14

Up to 3 MW of on-site power available at full build

- N+1 redundant UPS infrastructure to prevent loss of power
- Overhead power distribution prevents interference with network infrastructure
- Offered capability of 12kW per rack at full build

Cooling

- Chiller (Glycol) system with high efficiency air handler for efficient year round energy savings
- N+1 redundancy
- Zone setups designed for future 40 to 100 gigabit connection speeds
- Hot-aisle and cold-aisle configurations with optional air containment solutions to increase efficiency and density while maintaining strict cooling standards

Network Connectivity

- Internet bandwidth active over multiple providers
- Dedicated redundant fiber connectivity to carrier hotel

Telecommunications

- Carrier-rich facility that can reach LS Networks, Charter Business, Level3, CenturyLink, and Douglas Fastnet

System Monitoring

- Designed for state-of-the-art monitoring, providing real-time feedback on building cooling, heating, and customer links as requested
- Enabling easy system management and instant identification of problems with systems
- Monitoring includes power, cooling, leak detection, and network and systems infrastructure needs

Fire Detection and Suppression

- Off-site alarm monitoring and fire department dispatch
- Multi-zoned pre-detection air sensors
- Pre-action dry pipe fire suppression systems that only fill with water in the event that two or more sensors are triggered in the same zone
- Only discharges in area where the temperature or flame triggers fire sprinkler head

