Technology, meet Humanity.

opus:interactive

Our Customer Commitment

- ✓ **100% Uptime**
- ✓ **24/7/365 Support**
- ✓ **SLA Guarantees**

About Opus Interactive

Founded in 1994, Opus Interactive provides cloud hosting, managed services and colocation from Tier III+ data centers in Hillsboro, Portland, Santa Clara, and Dallas.

Through close partnerships with industry-leaders and a commitment to customer satisfaction, Opus Interactive has earned a reputation for willingness to design and build customized hosting solutions that fit unique requirements for equipment, scalability, budget and future growth needs of its customers.

Headquartered in Portland, Oregon, Opus Interactive is an accredited member of the International Managed Services Provider Alliance and is PCI compliant and SAS70/ SSAE16 audited.

- ✓ **IT Outsourcing Services**
- ✓ **Cloud Hosting Services**
- ✓ **Data Center Services + Colocation**
- ✓ **Hosting Services**
- ✓ **Network and Internet Services**

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Technology, meet humanity.

Customized solutions and reputable customer service, backed by 100% uptime SLA guarantees. That's us.

Whether you need a single rack, or a full suite, we have the space you need and on-site engineers to keep you online at this state-of-the-art facility.

PROPERTY HIGHLIGHTS

High Capacity
- ✓ Phase 1 provides 7.9 MW of critical IT load
- ✓ 39,000 SF of data room space, supports high energy densities > 200 W/SF
- ✓ 60,000 SF of private office space available

High Availability
- ✓ 2N service for all IT critical load
- ✓ Tier 3 availability, concurrent maintainability on all infrastructure
- ✓ Unmatched availability history - 100% uptime guarantee

High Energy Efficiency
- ✓ Low pass-through PUE, estimated at 1.2
- ✓ Free cooling, full aisle containment
- ✓ High Service
- ✓ 24x7x365 on-site security and on-site engineering / facility management
- ✓ ISO 9001 compliant processes
- ✓ PCI compliant processes

Low Cost
- ✓ No sales tax (Oregon State Law)
- ✓ No property tax – located within an Enterprise Zone
- ✓ Income tax rebate – located within an Ecommerce Zone
- ✓ Highly reliable green power

BUILDING

Nearest Airports: Portland International Airport – PDX; Portland-Hillsboro Airport – HIO (private)
Building Size: 240,000 square feet
Floor Loading: 2,500 lbs. / square foot
Loading Docks: 2 secure privately accessed loading docks, one at grade level and one dock-high truck dock with a dock leveler
Parking: 343 parking spaces
Structure Enhancements: Facility meets "Essential Facility" requirements of the 2010 Oregon Structural Specialty Code (OSSC). With a Structural Importance Factor (SIF) of 1.5, the facility meets or exceeds the OSSC requirements for:

- Stronger seismic forces (SIF = 1.5)
- Heavier roof snow load (SIF = 1.2)
- Greater wind pressure (SIF = 1.15)

Flood Plain: Outside of 500 year flood plain
Office Space: 60,000 square feet among first and second floors
Fire Suppression: Double interlock, pre-action dry pipe fire suppression system with VESDA system for data and electrical rooms; separate VESDA system for mezzanine level equipment
Storage/staging: Secure caged storage available for customer use

POWER SYSTEM

Utility Provider: Portland General Electric (PGE), Rate Schedule 89
Generation Mix: On an annual basis, 75% energy from low/no carbon (natural gas or hydro/renewable)
Distribution Grid: Designed and operated to SEMI 47 Standards (for semiconductor fabs in Silicon Forest). The area Grid carries a "high-reli-ability" designation, meaning that in addition to higher design standards, O&M procedures include annual IR scans for every feeder & vault with regularly scheduled shutdowns and maintenance.
Substation: Served by PGE's Sunset Substation, which is in turn fed by triply redundant transmission lines from BPA's Keeler Substation, PGE's St Mary's North in Beaverton and PGE's St Mary's South in Beaverton (each supply transmission line is capable of carrying 100% of the Sunset load).
Performance history: The Sunset substation has been in service for 15 years with no outages
Facility Utility Service Feeds: Dual, underground medium-voltage (12.47 KV) utility entrances supplying physically redundant dedicated feeds from PGE
Redundancy: Concurrent maintainability on all components

DATA ROOM SPECIFICATIONS

Description: Each data room provides 100% usable, unencumbered space with no electrical or mechanical infrastructure on the tenant data room floor. Each data room has dedicated electrical and mechanical infrastructure.
Allocated Power and Space for Phase I:

- 4 data rooms, can be combined or demised
- Each data room: 1.975 MW / 9,750 sq. ft
- Average Energy Density: 200+ watts/ sq ft (can be increased)

Allocated Power and Space for Phase II: 3.95 MW / 19,000 sq ft
Allocated Power and Space for Phase III: 7.9 MW / 40,000 sq ft
Power Delivery: Power is delivered to PDU, customer to access from output breaker to deliver to data room
Flooring: Slab on grade concrete throughout facility, anti-static vinyl composition tile (VCT) throughout data rooms / corridors
Ceiling Height: 11' above finished floor
Ceiling Infrastructure: 2 x 4 ceiling T-bar grid system to support customer's overhead infrastructure, ceiling infrastructure houses a return air plenum. The air handling systems are located on a segregat-ed equipment mezzanine above the data rooms.
Cooling: Aisle containment required

BASIS OF DESIGN FOR CRITICAL POWER SERVICE

Tier 3 Availability: Dual cord power to the rack; ability to isolate and provide maintenance at all levels of the power distribution system
Total Capacity: 7.9 MW of critical power, supplied by 4 separate UPS/PDU systems of 1.975 MW each. Each separate UPS/PDU system served by a dedicated 480V critical power switchboard, backed up by a dedicated generator as well as a common reserve generator.

EMERGENCY / BACK-UP POWER INFRASTRUCTURE

Generators for Phase I:
Description: 4 x 2.25 MW standby generators for critical load; 2 x 2 MW standby generators for mechanical loads; 1 x 2.25 MW swing generator (15.25 MW total capacity)
Number of Hours of On-Site Fuel: 36 hours per generator
Fueling Replenishment: Multiple refueling vendor sites under SLA supply contract
Fuel Storage Tanks: Every generator has a dedicated UL 142 double walled belly tank;

EMERGENCY / BACK-UP POWER INFRASTRUCTURE (CONTINUED)

4,400 gallons capacity for 2.25 MW units; 3,800 gallon capacity for 2 MW units; 29,600 total gallons of on-site diesel

UPS / PDU SYSTEMS (PER 1.975 MW DATA ROOM)

UPS Description: 4 x 825kVA Eaton Powerware 9395 UPS modules (99% efficient in ESS mode)
Batteries: 5-minute minimum run-time (can be extended). Automated battery monitoring by Intellibatt.
UPS Configuration: Distributed Redundant
PDU Description: 8 x 400kVA; 480 volt primary 120/208 secondary with individually metered output breakers
PDU Configuration: 2N diverse paths to IT load in data center

COOLING INFRASTRUCTURE (PHASE I AND II)

Basis of Design: Tier 3 availability; ability to isolate and provide maintenance at all levels of the closed loop system
Description: Contained hot/cold air system, shared air supply with direct isolated returned air
Chilled Water Plant: 3 primary chillers (2 x 700 ton and 1 x 1000 ton) with 1 redundant swing chiller (1 x 1000 ton) for 3,400 ton total capacity (2,400 ton capacity @ N+1)
3-fold Water: Mechanical cooling, direct evaporative cooling, and water-side economization (heat exchanger supplements central plant – further reduces tenant utility costs)
Chilled Water Storage: 72 hours of on-site make-up water store, fed from 142,000 gallon tank
Air-handlers: Cold air delivered by 45 individual air-handlers, supplied by 2 sets of electrical switchgear (2N electrical distribution system); all air-handlers contribute to common plenum – contributes to very high redundancy
Air Temperature to Data Room: Commissioned to design load of 68 degrees; can be modified
Redundancy: Concurrently maintainable

NETWORK / COMMUNICATIONS

MPOE: 2 diverse underground points of entry
Conduits: Fiber enters the site from two physically redundant pathways (SE and SW)
Carriers: Level 3, Zayo, Spectrum Networks, Cogent, Comcast, TW Telecom, Frontier and Integra within building, other carriers (to include Tier 1 carriers) are at property line and readily accessible.
Trans-pacific Cable System Access: Three cable-landing sites within a half a mile of the property
Meet-Me-Rom Description: Redundant Meet–Me–Rooms, fault tolerant

SECURITY

Description: Multiple layers and methods of authentication, accesscontrol, and surveillance
Building and Perimeter: CCTV 24x7x365 monitored and recorded video surveillance of all entrances, building exterior, interior corridors and Data Room
Security Staffing: Guaranteed 100% on-site staff coverage. 2 FTEs on-site 24x7x365; security desk at customer entrance always manned. Staff trained for operations, fire, & life safety incident response.
Building Access Control: Proximity badge reader with photo ID system, mantrap with secondary proximity badge reader
Tenant Premise Access Control: Proximity badge reader with photo identification system, system can accept second factor access systems (biometrics)

Call 866-678-7955 or email Sales@opusinteractive.com for a quote TODAY!

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CloudAgile Business Partner
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