



Technical Specifications

Designed and **engineered for efficiency**



ROOT
data center

Spec Sheet

Site Information

Total Space	26,000 sqft
Total Number of Cabinets	500
Total White Floor Space	11,000 sqft
Space Configuration	Cabinet and Cages 44U Height x 24-30" Width x 42-48" Deep
Floor Type	Electrostatic dissipative tile, slab on grade
Weight Restrictions	500 lbs/sqft
Delivery Dock	Restricted for ROOT Clients Full Height + Full Length Delivery Trucks Personal Delivery Vehicles
Staging Rooms	Yes – 2 Private staging rooms
Number of Tenants	Single Tenant
Roof Rights	On Request

Structure

Year Built	1999
Renovated	2014
Number of Floors	1
Structure Type	Concrete and Steel Frame
Flood Plain	Outside of Flood Plain
Airports	> 1km from airport and flight paths
Railway	>1km from long hall railway

Fire Detection

Fire Protection	Smoke and Heat
Fire Suppression	Dry pipe, double interlock, pre-action
Remotely Monitored	Yes

Spec Sheet

Environmental Controls

Primary Cooling System	Perimeter refrigerant based cooling system
Redundant Cooling System	Kyoto Cooling – Air to Air Heat Exchanger
Current Cooling Capacity	500kW (Concurrently Maintainable)/667kW (N)
Long Term Cooling Capacity	3000kW (Concurrently Maintainable)/4000kW (N)
Cooling Density per Rack	35-40kW/Rack, 1590 watts/sqft
Humidification	Centralized Steam
Remotely Monitored	Yes

Connectivity

Meet-Me- Room	Yes, ROOT Controlled
Number of Networks	5+ on-site networks and access to over 75 carriers with minimal additional latency.
Carrier Neutral	Yes
Fiber Entrance	Diverse Path Dark Fiber (North and South Entrance)
Cross Connects	Yes, Fiber and Copper

Power

Uninterruptible Power Supply (UPS)	Concurrently Maintainable
Load Design	6kW/rack (272 watts/SQF) average design density, 35-40kW/rack (1590 watts/sqft) performance density
Configurations	Concurrently maintainable, dual path power distribution to every rack
Entrances	Dual primary power entrance (generator) Single economic power entrance (utility)
Automatic Transfer Switch (ATS)	Yes, concurrently maintainable
Battery Type	Valve-regulated lead-acid battery (VLRA)
Battery Monitoring	Built in voltage and current data sensing points combined with periodic full load testing
Battery Redundancy	Concurrently Maintainable
Generators	Concurrently Maintainable - 1.0 MW/1.2MW (Continuous runtime/Prime)
Fuel Run Time	Diesel, 16 hours concurrently maintainable (expandable to 36 hours upon request)
PUE	Recorded Average to Date - 1.11, Design - 1.20
Remotely Monitored	Yes, Onsite and Offsite NOC



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Site Utility

Electrical	25 kV Primary
Utility Provider	Hydro – Quebec
Power From Substation	2.5MW (Phase 1) – 5MW (Phase 2)
Water	Domestic (not required for mission critical operations)

Support

Remote Hands	Yes, 24/7
Support	1-844-288-ROOT (7668), option 2, or support@rootdatacenter.com
Sales	1-844-288-ROOT(7668), option 1 or sales@rootdatacenter.com

Security

SSAE 16/CASE 3416 Standards	Yes
SOC 2 Type II Standards	Yes
PCI Standards	Yes
Closed-Circuit TV	Yes
Customized Security	Yes – Cabinets and Cages
On-site Guards	Yes
Access	Biometric and keycard access
Restricted Access	Yes – Turnstile
SSAE 16/CASE 3416 Standards	Yes
SOC 2 Type II Standards	Yes





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