

Data Center Specifications

Asheville, North Carolina

REAL ESTATE SUMMARY

Total Building Size [sq. ft.]:	42,915
Total Datacenter Floor [sq. ft.]:	10,100
Floor Loading Capacity [lbs]:	5000
Seismic Hazard Exposure Group:	1
Seismic Soil Profile Type:	S2
Building frame system with reinforced concrete sheer walls:	R=5.5; CD=5

ELECTRICAL SUMMARY

Voltage Availability:	208/120v
Power Density [W/sf]:	200
Redundant Bus Availability:	Yes
Generator Qty:	3
Generator Capacity:	2.25MW
UPS runtime at full load [min]:	18
Fuel Capacity [h]:	48
Unlimited runtime with fuel contracts.	

UTILITY PROVIDER

Progress Energy provides power for AVL01 via a single feed from their power generation plant 1 mile south of the facility.

MECHANICAL SUMMARY

RTU DX Cooling Systems:	6
Redundancy:	N+1
Humidity Control:	Yes
Design Temp [F]:	68 +/- 2
Floor Level Water Detection:	Yes



CONNECTIVITY

- Proprietary, redundant and cross-configured multi-homed router network
- Multi GigE connectivity with transit from AT&T, LEVEL3, UUNet, BellSouth, Sprint, Broadwing, SAVVIS, GlobalCrossing, Qwest and Charter
- Carrier neutral environment
- BellSouth provides copper to the building
- Diverse fiber & copper entrances
- Diverse paths to customer equipment/racks
- Cisco 3700 series routers service the core
- Cisco 7 series routers manage BGP and network aggregation
- Internap Flow Control Platform (FCP) for optimized bandwidth routing and traffic control. The Internap FCP constantly monitors IP network performance to ensure optimal routing at all times by automatically routing traffic around major network outages, IP network brownouts, slowdowns and general latency that cause application issues that impact customer business.
- Network monitoring 24x7x365 with onsite Network Operations Center (NOC)
- Basic IDS (Intrusion Detection System) monitors the entire network to protect customer and datacenter infrastructure.

GROUNDING DESCRIPTION

Building grounding system exceeds NEC and IEEE standards.

BUILDING MONITORING SYSTEM

Proprietary building management system monitors and controls HVAC systems. A separate power system monitors all facets of power distribution including utility, generator, UPS and RPP usage.



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Secure, individually locked, 48U Cabinets house and protect customer owned hardware.



Biometric access control devices ensure entry is only obtained by authorized individuals.



Secure Cages with floor to ceiling walls are available for customers who require the highest possible level of security.

FIRE SUPPRESSION

VESDA (Very Early Smoke Detection Apparatus) provides the earliest possible warning of potential fire event by detecting smoke particles at the incipient stage of fire. This allows onsite trained technicians to immediately respond to the incident with the objective of extinguishing it before it spreads and causes widespread damage. Multi-Stage protection sprinkler system requires alerts from smoke detectors to trigger building alarm. Sprinkler heads will release water to the affected isolated area when a specific localized temperature threshold is met.

SECURITY

24/7/365 monitoring of the interior and exterior of the building. Armed guards on site. Additionally, over 20 cameras cover all entrances and the datacenter floor. Video data is digitally stored offsite for 90 days. The exterior of the building is reinforced concrete with glass only at the front. A single point of entrance is used for all staff and visitors to effectively control and monitor inbound and outbound access, something that is rarely implemented in datacenters. The vehicular approach to the building is designed to eliminate attacks on the building. Specially placed environmental and structural barriers surround the glass areas of the building to further obstruct vehicles. All building entrances require card key access. Security requires sign-in with government issued photo identification by all visitors. The datacenter floor and secured areas require two-factor authentication via biometric finger print scan in a mantrap. All customer cages and cabinets are individually keyed and locked for additional security.

SHIPPING / RECEIVING

Large Truck (18 wheeler) and small trucks are permitted on the property to support all customer shipping requirements. A secured receiving area is designed to hold customer equipment prior to installation.

AVAILABLE SERVICES

- Webmaster administrative services and server management packages
- Server maintenance: updating server operating system, routine patching
- Offsite backup and media storage and swapping
- Detailed website statistics/log file analysis via our statistics servers
- Streaming media services available from multiple global locations.
- IP Allocation as needed
- Cisco PIX and equivalent firewall service and packet filtering at the router level
- Microsoft, RedHat, Cisco, Citrix, Dell, HP, IBM and other certified technicians on staff

ACCESSIBILITY

- Easy access right off I-26 at Exit 37. 2 hours from Charlotte, NC, 3 hours from Atlanta, GA.
- Direct flights from 11 Major Metro airports



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