



Data Centers

PARI's remote location and extensive electrical and IT infrastructure make it an ideal setting for data center space for many organizations. Physical barrier access control with RFID key cards provides easy client accessibility, and continuous video surveillance with a full alarm system provides excellent physical security.

Cline Administration Building main data center and potential build-out space

PARI's main operational data center is located in the Cline Administration Building. This data center currently occupies approximately 1,300 square feet of raised floor space and has 125 kilovolt-amperes (kVA) of power capacity with 48 kVA on UPS, and 3 ten-ton Leibert computer-room air conditioner (CRAC) units. Security is provided with RFID key cards, 24/7 stored video surveillance, and a full alarm system with multiple alarm communication paths. Fiber optic connectivity is available to multiple service providers over multiple physically-separate routes. Depending upon client needs, power redundancy to two substations and two generators can be provided.

Additional raised floor space with Leibert CRAC units and 125kVA of potentially redundant power can be made available for future expansion.

Research Building redundant data center, MCNC data center, and build-out space

The Research Building contains two operational data centers and about 4,000 square feet of additional raised floor space for future expansion. PARI operates a redundant data center with 640 sq.ft. of space, sharing power and CRAC units with MCNC's approximately 1,200 sq.ft. of space. Three 15-ton CRAC units, a 45-ton chiller, and 150kVA of UPS-protected power service these spaces. Power redundancy to a second generator and substation is available as well. Redundant fiber optic connectivity through multiple providers and over physically disparate routes is available. Security is provided with RFID key cards, 24/7 stored video surveillance, and a full alarm system with multiple alarm communication paths.

The Research Building also contains an additional 4,000 square feet of raised floor space that can be built out to suit. Office suites with one or two rooms are also available. The space is cooled with redundant 70-ton chillers with associated redundant air handlers. Up to 225kVA of UPS protected power at 480VAC three-phase is available for client-provided power distribution units (PDUs). All critical systems are provided uninterruptible power using a 500kVA carrier-grade UPS, with the option of redundant generator and non-UPS protected substation facilities. A 500kVA diesel generator provides power for longer-term outages and can run several weeks using onsite fuel.