

A GENIUS Solution for Your Data Center Needs

The Next Generation in Modular Data Centers

GENIUS CONFIGURATIONS

GENIUS Modular Data Centers range in many configurations that are flexible to your needs:

COLOCATION/RETAIL

8 – 30kW/rack, up to 250 racks

HYPERSCALE/WAREHOUSE

8 – 30kW/rack, segmented infrastructure/secure

EDGE/SUPERNODE

10 – 25kW/rack, 500kW-1MW blocks

EDGE HD

+150kW/rack, 1MW blocks, water cooled

Customizable and operational in six months with industry leading sustainability initial costs.

GENIUS IS SMART



Modular



Speed to Market



Savings



Repeatable



Flexible



Sustainable

10 GENIUS BENEFITS

1. Reduced CapEx

We blend prefabricated power and mechanical modules with kit-built pre-engineered structure and white space, thus solving expensive prefabricated white space challenges. GENIUS allows for scalable capital deployment tied to customer demand.

2. Maximized Delivered White Space

GENIUS is designed to deliver up to 70% leasable (revenue-generating) space.

3. Reduced Construction Time

From pad ready to operational in 5 – 8 months. Significantly reducing time to market, allowing for earlier revenue generation. We minimize complexity on site, turning your construction project into an assembly project.

4. Global Repeatability

Our reduced cost and drastically improved delivery time are based on 400V (380-415V) systems. Deployable in all 50Hz and 60Hz locations. Localized for climatic conditions.

5. Experience

As leaders in the field, we have designed and delivered modular data center solutions since 1999.

6. Sustainability

Reduced Carbon Building Materials

- Recycled Steel Structure
- Low Carbon Concrete
- Mineral Wool Wall Panels (recycled steel slag with high thermal resistivity, insulation & fire rating)

Green Energy Solutions

- Natural Gas Backup Generation / Bi-Fuel Backup Generation / Biodiesel Options
- Hydrogen Backup for Telecom
- Renewable/Solar Integration
- High-efficiency Cooling

7. Life Expectancy

The structural warranty is 20-30 years, with a life expectancy exceeding 30 years.

8. Flexibility

Able to meet the most stringent redundancy and resiliency standards, flexible and customizable to your requirements.

9. Optimized Maintenance Costs

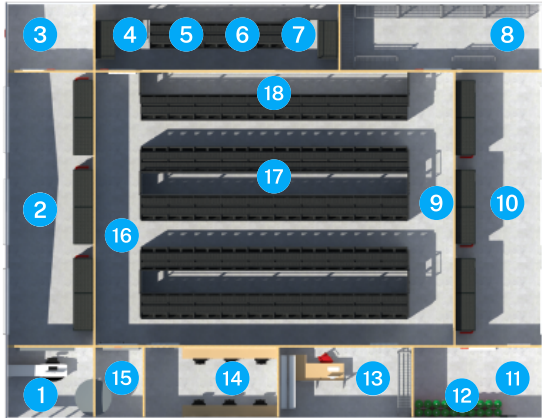
Equipment selections are based upon serviceability by OEMs with Global Scale and are tailored to minimize proprietary software needs for routine maintenance.

10. Structural Resiliency Compliance

Our use of steel instead of concrete allows for high wind (180mph+) and seismic zone 4 compliance in a more cost-effective and faster deployment.

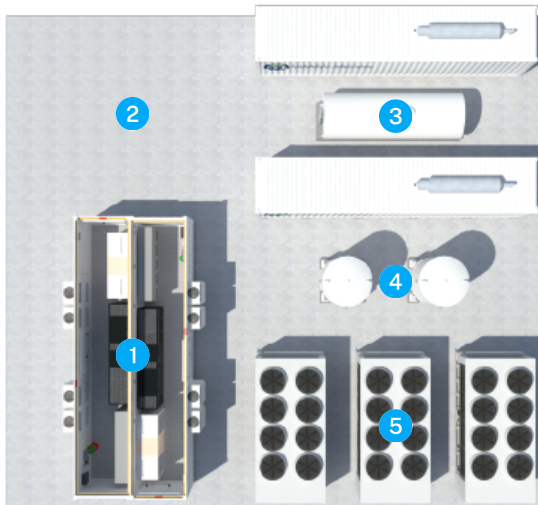
DATA CENTER PLAN VIEW

- 1 Entrance
- 2 Mechanical Room A
- AHU (IT) x 6 => N+1
- 3 Services Room A
- 4 Electrical Room
- 5 Meet Me Room
- 6 Electrical SWB
- 7 60kW AHU x2 => N+1
- 8 Battery Room
- 9 Hot/Cold Containment
- 10 Mechanical Room B
- AHU (IT) x 6 => N+1
- 11 Services Room B
- 12 Fire Ext. System
- 13 Fiber Entry Point
- 14 MMR Room



- 15 Mantrap
- 16 Data Hall/White Space
- 17 40 Rack Corridor
- 18 120 Rack Corridor

EQUIPMENT YARD PLAN VIEW



- 1 MGPU A & B
 - Modular UPS
 - Electrical SWB
 - Battery System
- 2 Grey Space
- 3 Diesel Generators x 2
- 4 Buffer Tanks x 2
- 5 Air/Water Chillers x 3

OPERATIONAL WITHIN SIX MONTHS

BD#1 – Edge / SuperNode

White Space Area	2200 sq. ft. / 205 sq. meters	
Total # of Racks	Up to 100	3-5 Rows of 20 Racks
IT Power	550kW, 415V, 480V, 50/60Hz	Tier III Redundant Design
Rack Density	10 – 25kW/rack, 500kW-1MW blocks	

BD#2 – Edge HD

White Space Area	2200 sq. ft. / 205 sq. meters	
Total # of Racks	Up to 100	3-5 Rows of 20 Racks
IT Power	1100kW, 415V, 480V, 50/60Hz	Tier III Redundant Design
Rack Density	+150kW/rack, 1MW blocks, water cooled	

BD#3 – Multi Tenant / Wholesale Solution

White Space Area	4400 sq. ft. / 409 sq. meters	
Total # of Racks	Up to 200	10 Rows of 20 Racks
IT Power	2200kW, 415V, 480V, 50/60Hz	Tier III Redundant Design
Rack Density	8-30kW/rack	

BD#4 –Hyperscale

White Space Area	6600 sq.ft. / 613 sq. meters	
Total # of Racks	Up to 300	15 Rows of 20 Racks
IT Power	3300kW, 415V, 480V, 50/60Hz	Tier III Redundant Design
Rack Density	8 – 30kW/rack, segmented infrastructure/secure	

Cooling

FLEXIBLE OPTIONS BASED ON LOCATION:

DX CRAC(s), DX Glycol Free Cool CRAC(s) CW CRAH(s) w/ Free Cooling Air-Cooled Chillers, CW Rear Door Heat Exchangers, On-Chip Cooling

MCPU (Mission Critical Power Unit) - Power Systems Delivery Container

UPS System	550kW to 3000kW (N) with Multiple Paralleled Power Units for (N+1/2N)
Batteries	Configs Multiple Battery Cabinets per UPS designed for 5 minute runtime
Switchgear	Maintenance Bypass, Input/Output and Paralleling Gear

