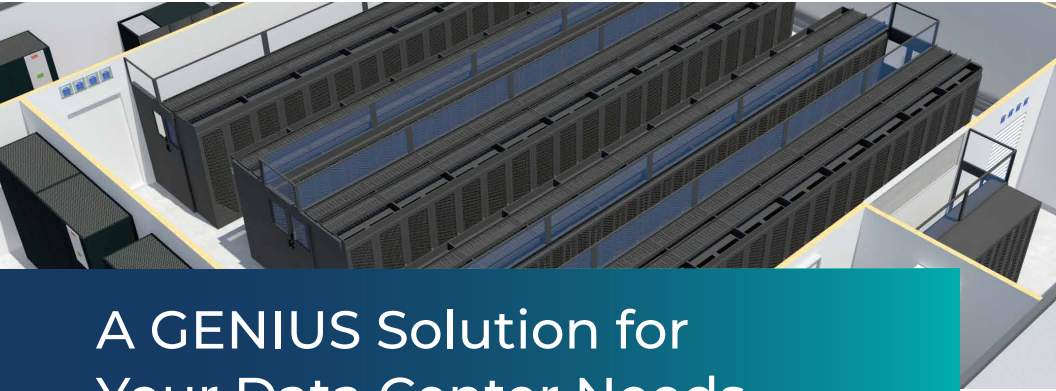




GENIUS™
MODULAR DATA CENTERS
by  MISSION CRITICAL
FACILITIES INTERNATIONAL



A GENIUS Solution for Your Data Center Needs

The Next Generation in Modular Data Centers

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

- Colocation/Retail
8 – 15kW/rack, up to 250 racks
- Edge/SuperNode
10 – 15kW/rack, 500kW blocks
- Hyperscale/Warehouse
8 – 15kW/rack, segmented
infrastructure/secure rooms
- Edge HD
+20kW/rack, 500kW blocks,
water cooled

Customizable and operational in five 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 blended 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 reduce complexity onsite, turning your construction project into an assembly project.

4. Global Repeatability

Our reduced cost and drastically improved delivery time is based on 400V (380-415V) systems - deployable in all 50Hz and 60Hz locations, localization 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 Back up 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 of 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.

Flexible. Sustainable. Utilitarian. Eloquent.

Data Center Plan View

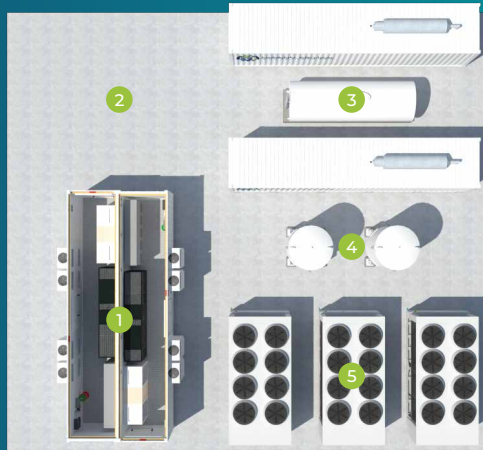
- 1 Entrance
- 2 Mechanical Room A
- AHU (IT) x 6 => N+1
- 3 Services Room A
- 4 Electrical Room
- 5 Meet Me Room
- 6 Electrical SWB
- 7 60kW AHU x2 => N+1
- 8 Battery Room
- 9 Hot/Cold Containment
- 10 Mechanical Room B
- AHU (IT) x 6 => N+1
- 11 Services Room B
- 12 Fire Ext. System
- 13 Fiber Entry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



- 16 Data Hall/White Space
- 17 40 Rack Corridor
- 18 20 Rack Corridor

Equipment Yard Plan View

- 1 Power Modules 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 Five Months

BD#1 – Edge / SuperNode		
White Space Area	2200 sq. ft. / 205 square meters	
Total # of Racks	Up to 100	3-5 Rows of 20 Racks
IT Power	550kW, 400V, 50/60Hz	Tier III Redundant Design
Rack Density	~8kW/rack	
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, 400V, 50/60Hz	Tier III Redundant Design
Rack Density	~18kW/rack and higher	
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, 400V, 50/60Hz	Tier III Redundant Design
Rack Density	Up to 11kW/rack	
BD#4 –Hyperscale		
White Space Area	6600 sq.ft. / 613 sq. meters	
Total # of Racks, Max	Up to 300	15 Rows of 20 Racks
IT Power	3300kW, 400V, 50/60Hz	Tier III Redundant Design
Rack Density	Up to 13kW/rack	
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 1100kW (N) with Multiple Paralleled Power Units for (N+1/2N) Configs	
Batteries	Multiple Battery Cabinets per UPS designed for 5 minute run-time	
Switchgear	Maintenance Bypass, Input/Output and Paralleling Gear	



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