

# Operational within Five Months

BD#1 – Edge/SuperNode		
White Space Area	2200 sq.ft. (No change to size of mechanical corridors, typical all)	3 rows
Total # of Racks, Max	60	
Power/Generator	600kW	Tier III: Generator/Utility coverage is 1000kW per building (using 500kW gens)
Cooling	600kW	DX CRAC(s) (optional refrigerant based economization); CW CRAH(s) w/ free chillers
Rack Density	10kW/rack baseline up to 20kW/rack	
BD#2 – Edge HD		
White Space Area	2200 sq. ft.	3 rows
Total # of Racks, Max	60	
Power/Generator	1200kW	Tier III: Generator/Utility coverage is 2000kW per building (using 500kW gens)
Cooling	1200kW	CW WallFlow AHU(s) (optional airside economization); RDHx or On-Chip Cooling
Rack Density	20kW/rack and higher	
BD#3 – Multi Tenant / Wholesale Solution		
White Space Area	2200 sq.ft. - per building - (3 blocks in base solution totaling 6600 sq. ft.)	4-5 Rows Per Building
Total # of Racks, Max	300	
Power/Generator	2400kW (800kW delivered per building)	Tier III: Generator/Utility coverage is 1500kW per building (using 500kW gens)
Cooling	2400kW	CW CRAH(s) w/ Free Cooling Chillers: CW or DX WallFlow AHU(s) (optional airside economization)
Rack Density	8kW/rack	
BD#4 –Hyperscale		
White Space Area	2200 sq.ft. - per building - (3 blocks in base solution totaling 6600 sq. ft.)	3 rows
Total # of Racks, Max	240	
Power/Generator	3600kW (1200kW delivered per building)	Tier III: Generator/Utility coverage is 2000kW per building (Standby Rating)
Cooling	3600kW	CW WallFlow AHU(s) (optional airside econ.); RDHx or DX WallFlow AHU(s) (optional airside econ.)
Rack Density	15kW/rack	
MCPU (Mission Critical Power Unit)		
Total # of racks supported	Variable - based on selected configuration	
Power	600 - 2400 kW (N) (2 - 600kW units in N+1/2N)	
Cooling	Packaged Wall Mount or Horizontal Ceiling Mount	
Batteries	Lithium cabinets per UPS	
Gear	Maintenance bypass I/O gear and paralleling gear	
Monitoring		
All equipment provided with Modbus over TCP/IP and SNMP output capability, flexible to tie into any DCIM, BMS, DCMS.		



## A GENIUS Solution for Your Data Center Needs

The Next Generation in Modular Data Centers

### Monitoring

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 pre-fabricated power and mechanical modules with kit built pre-engineered structure and white space, solving expensive pre-fabricated white space challenges.

### 2. Maximized Delivered White Space

GENIUS is designed to deliver a minimum of 70% leasable (Revenue generating) space.

### 3. Reduced Construction Time

From pad ready to operational in 5 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 concerns is required and compressor selections based on grid frequency.

### 5. Experience

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

### 6. Sustainability

Reduced Carbon Building Materials

- Recycled steel
- 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 live expectancy exceeding 30 years.

### 8. Flexibility

Able to meet the most stringent of redundancy and resiliency requirements, 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.

## Flexible. Sustainable. Utilitarian. Eloquent.

### Data Center Plan View

- 1 Entrance
- 2 Mechanical Room A  
- 200kW AHY (IT) x 6 => N+1
- 3 Services Room A
- 4 Electrical Room
- 5 Modular UPS 1MW x 2
- 6 Electrical SWB
- 7 60kW AHU x2 => N+1
- 8 Battery Room
- 9 Hot/Cold Containment
- 10 Mechanical Room B  
- 200kW AHY (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 1MW x 2  
- Electrical SWB  
- Li-Ion Battery Cabinets
- 2 Grey Space
- 3 Diesel Generators x 2
- 4 Buffer Tanks x 2
- 5 Air/Water Chillers x 3

