

HD3 High Density Modular Data Center

Prefabricated modular data center infrastructure engineered for rapid deployment, extreme density, and scalable growth.

INTEGRATED SITE CONCEPT



KEY METRICS & SPECIFICATIONS

150 MW
TOTAL POWER CAPACITY

96 MW
TOTAL CRITICAL IT CAPACITY

9N8
REDUNDANCY

100 kW/rack
RACK DENSITY

4 MW / HAC
HAC SYSTEM

~28,800
CHILLER TONS

144
DATA HALL MODULES

54
PDCS

54
MV xPMBs

(54) 3.3 MVA
GENERATORS

(54) 600T
CHILLERS

(144) 1MW
CDUS

HD3 CORE CHARACTERISTICS

- ✓ Complete pre-fabricated modular design for data hall, power, cooling, control, and administrative areas.
- ✓ Complete prefabricated delivery coordinated for factory fabrication, integration, and commissioning.
- ✓ On-demand deployment using standardized modular architecture for rapid replication and scalable growth.
- ✓ Flexible redundancy configuration supporting 2N, N+1, 4N/3, and 5N+1 options.
- ✓ Standards alignment includes TIA-942, Uptime, AISC, ASCE, NFPA, ASHRAE TC 9.9, and ASHRAE 90.1 as applicable.

APPLICATIONS



- Hyperscale data centers
- Colocation providers
- Enterprise data centers
- AI / High-density compute
- Mission-critical infrastructure

STANDARDS & COMPLIANCE



- TIA-942
- Uptime Tier Standard
- AISC 360 / AISC 341
- ASCE, NFPA an applicable
- ASHRAE TC 9.9 and 90.1

DELIVERY MODEL



- Engineered
- Fabricated
- Integrated
- Factory tested
- Commissioned L1-L4
- Shipped, installed, started up

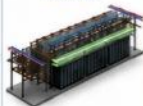
WHY HD3



- Rapid deployment
- Scalable growth
- Integrated power + cooling
- Flexible redundancy options
- Lower risk and reduced TCO

PREFABRICATED MODULE FAMILY

DATA HALL



HAC-ready white-space module

POWER DISTRIBUTION



PDC and electrical distribution

MECHANICAL



Chiller and cooling infrastructure

CDU



CDU and water-piping module

BATTERY



Energy storage for UPS support

ADMIN



Office, control, and support space



FACTORY BUILT

Precision-manufactured modules ensure quality and consistency.



RAPID DEPLOYMENT

Pre-fabricated and pre-commissioned modules reduce schedule risk.



SCALABLE CAPACITY

Standardized modules support seamless replication and future expansion.



FLEXIBLE REDUNDANCY

Configurable architecture supports resilient uptime requirements.



PRE-COMMISSIONED DELIVERY

Modules are tested before delivery for accelerated go-live.