



Colocation for High-Performance Computing Environments

COLOCATION

HPC



Flexible Space, Cooling, and Power Options for Demanding High-Performance Computing

For computations that require parallel execution to climate change and health sciences, high-performance computing (HPC) colocation solutions solve the world's greatest research challenges. However, building an HPC data center is expensive, requiring specialized talent in construction and operations plus significant capital.

To help enterprises take on these challenges, DataBank builds HPC-ready data centers. By relying on these high-density colocation facilities and our extensive experience with HPC deployments, your organization can gain flexible cooling capabilities while also meeting your power density requirements. You also increase access to floor space options within a single facility so you can avoid switching to a new provider.

Multiple Design Options

The base HPC design in our data centers incorporates slab flooring with perimeter cooling, which is ideal for large hyperscale deployments. For higher densities, we can provision technologies like rear-door heat exchangers and direct-to-chip cooling with minimal effort.

For clients that require traditional enterprise deployments, our agile [Universal Data Hall Design](#) framework allows us to easily add raised flooring to accommodate varying cabinet sizes, layouts, and other options. This approach provides the agility our clients require today and well into the future.

At-A-Glance

- Reduces cost of building and maintaining data centers
- Eliminates heat-related outages
- Enables access to technical expertise
- Increases speed-to-market for business applications
- Reduces operational risk

GET A QUOTE

Discover the DataBank Difference

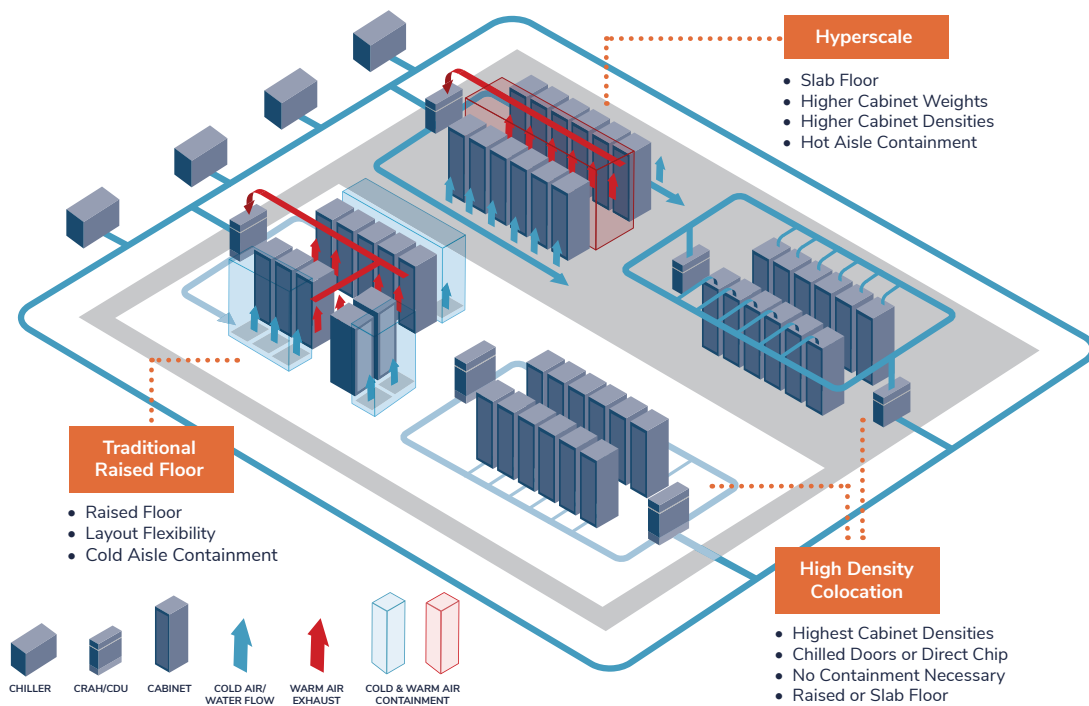
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DATABANK
Data Center Evolved™

Universal Data Hall Design

Flexibility to accommodate all types of customer needs.



DataBank Colocation for High-Performance Computing Options

By partnering with DataBank, your organization decreases upfront data center costs and streamlines innovation. Our Universal Data Hall Design offers a range of HPC-enablement solutions that give you the agility your dynamic compute environments require.

Water-Cooled Designs			Air-Cooled Design
Offers clients the greatest number of options to cool their environments, depending on several factors including weight of cabinets and amount of power density per cabinet footprint.			Allows for data halls to be cooled while containing heat and providing efficient cooling when provisioning heavy cabinets from 10-30kW in straight rows, such as hyperscale deployments
Chilled Cabinet Doors • Raised or slab floors • Per-cabinet/plenum heat absorption • Modulating water valves • Variable-speed fans • Supports 30-80kW+ of power draw	Direct-to-Chip • Raised or slab floors • Liquid delivered directly to components • Rack-mounted manifolds and flexible hosing • Effective and efficient • Supports 80kW+ of power draw	Immersion • Slab floors • Components submerged in dielectric fluid • No fans or traditional heat exchangers required • Highest available power density • Costs less than traditional air cooling	• Slab Floors • Perimeter air handlers • Wide cabinet spacing (8-10 ft.) • Hot-aisle containment • Supports 10-30kW+ of power draw

TALK TO AN EXPERT
Discover the DataBank Difference

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