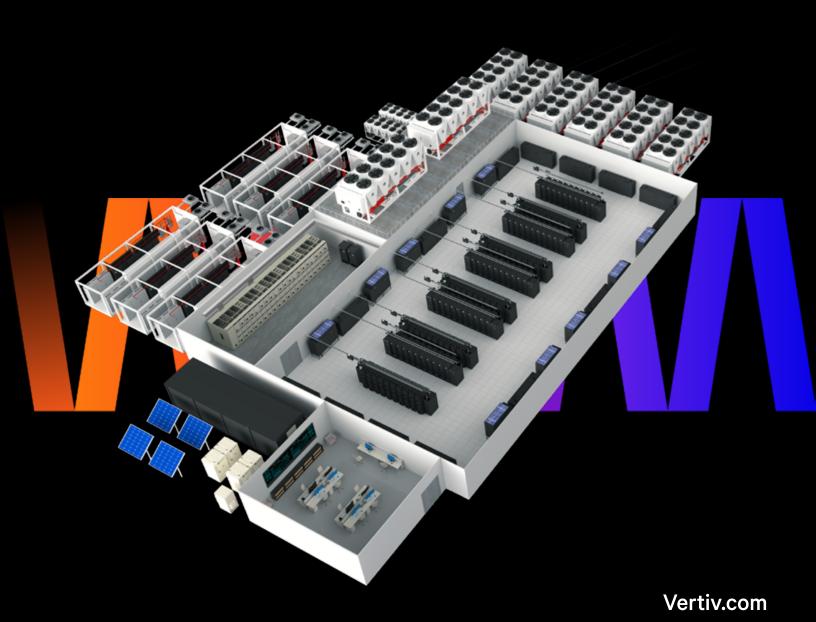


Vertiv[™] 360Al

Accelerate your Al Deployment

Brochure





What is Vertiv™ 360?

Vertiv 360 is a portfolio of infrastructure, services, and software expertly combined to solve complex customer challenges. Using validated designs coupled with end-to-end services and global scale, you can streamline deployments, leverage Vertiv expertise, and reduce business risk.

Our comprehensive portfolio spanning Drive simplicity and accelerate the complete Power Train and Thermal deployment speed, with flexible Chain means you get validated designs deployment options like rack, created to solve complex problems. row, module, skid, etc. Vertiv™ 360

End-to-end traditional and digital-enabled services with global coverage and domain expertise are unmatched in the industry.

Vertiv offers the tools needed to remotely control, optimize, and provide visibility for power and cooling infrastructure.

Vertiv[™] 360AI

Only Vertiv can meet the power and cooling demands of AI workloads.

Vertiv[™] 360AI is the simple way to power and cool AI. It includes a complete portfolio of power, cooling, and service solutions that solve the complex challenges arising from the AI revolution.



Power



Cooling



Enclosures & Structures



Digitized Management



Lifecycle Services

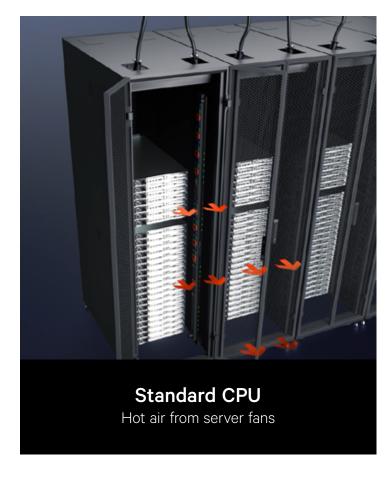


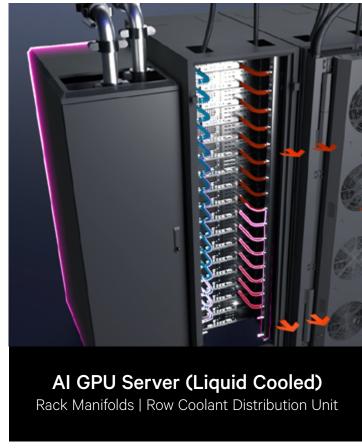
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The AI heat wave has arrived

Existing power and cooling infrastructure will require significant upscaling to support the unprecedented demand of accelerated computing. All inferencing and model training can drive power and cooling loads to unprecedented rack densities.



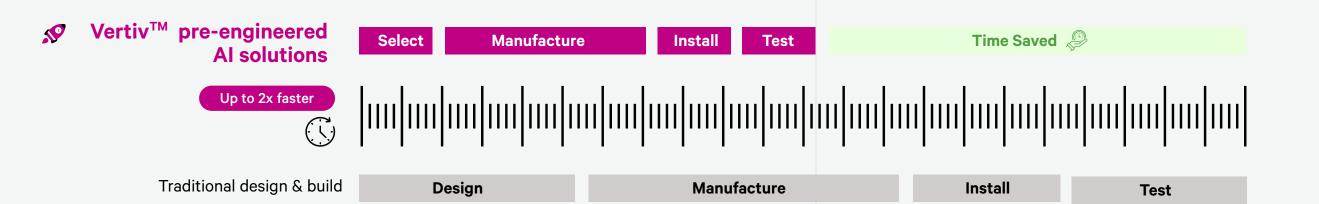


Considerations for AI Infrastructure Deployments

Designing and deploying power and cooling infrastructure for Al often becomes a slow and complicated iterative process, with several design cycles along the way. There are many things to consider.

- ? Is there an option to retrofit or is it a new build?
- Plow quickly do you need to deploy?
- Can the grid and facility provide enough power capacity?
- ? What is the right cooling strategy for the environment?
- Will GPUs fail if their cooling system(s) lose power?

- Will I have enough capacity for now, and a path for future?
- ? What is your controls strategy for power and cooling?
- ? Do you have the right partners for these technologies?
- Po you have expertise to maintain the infrastructure?



Accelerate your Al deployments

Don't let infrastructure slow down your return on Al investments, streamline design, deployment, operations, and lifecycle management.

4



Complete range of solutions for the entire Al journey

Vertiv[™] 360AI provides complete solutions of any scale, from test pilots and Vertiv[™] Edge inferencing to an entire prefabricated modular data center for AI model training.







Rack

Inferencing and Edge Al

- Al Test Pilots
- Model Training Pilots
- Edge Inferencing

Row & Room

Enterprise and Data Center Al

- Al Labs
- Inferencing and Model Training
- Data Center White Space

Facility & Data Center

Prefabricated Modular Data Centers

- Al Model Training
- Al Data Centers

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VERTIV.

Vertiv[™] custom AI solutions

Vertiv offers deep expertise around the globe to provide a solution tailored to your high-density application with exceptional scale, velocity, and quality for every project regardless of size or complexity.

Rapidly deploy.	Reduce	Energy	Zero		
Standardize. Repeat	risks	efficient design	floor space		
Speed data center builds with pre-integration, prefabrication, and flexible designs when you can't wait	with pre-integration, safety, and mitigate risk for stakeholders without compromising quality		Recover precious white space and scale as you grow		

We're anywhere you need to be



Over 1,500 modules shipped



Over 800 sites worldwide



Over 150MW Capacity Deployed



Multiple integrated modular sites with Uptime Institute[®] Tier III certificate

23,304m2, 813 sites, 5.184 racks



Vertiv[™] pre-engineered Al solutions

Within the Vertiv™ 360Al solutions portfolio, Vertiv's pre-engineered Al solutions offer an easier and faster option for our customers to deploy Al infrastructure.



Reduce deployment time up to 50%

Pre-engineered solutions can eliminate design work reducing deployment time up to 50%.



Broad Range and Flexible Deployment Methods

Solutions available from Edge Inferencing to AI Data centers with options ranging from a high-density rack solution, to large prefabricated modular data centers.



Unmatched Expertise & Support

Support throughout the process from assessment and design, to deployment and lifecycle management.



Interoperability and Seamless Operation

Only Vertiv can meet both the power and cooling demand of Al, and each solution is built from the most complete portfolio of power and cooling solutions in the industry.



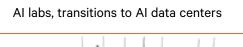
Learn More

Kickstart AI deployments with pre-engineered solutions, optimized for retrofits

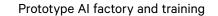
Pre-Engineered solutions can scale from Vertiv™ Edge Inferencing to training and AI at scale.

Al test environments, training pilots, or edge inferencing











Technology summary	Calutian madal mumban	Racks	Density per rack	Greenfield / Brownfield	Heat removal		— Obillan in aladad
	Solution model number				From server	From room	Chiller included
Al test environments, training pilots or ed	ge inferencing						
Small HPC/AI for minimal retrofit	1X50RE	1	50kW	Brownfield / Greenfield	<u></u>	<u>⊸o</u> Air	-
Small HPC/AI for minimal retrofit	1L88RE	1	88 kW	Brownfield	6	<u>⊸o</u> Air	-
Small HPC/AI for CW cooling systems	1L100RE	1	100 kW	Brownfield	6	🖒 Water / glycol	-
Modular Building Block for HPC/AI	1XL115E	1	115 kW	Brownfield / Greenfield	♦ + =	🖔 Water / glycol	-
Al labs, transition to Al data center							
Mid-sized HPC/AI (room neutral)	4XL400E	4	100 kW	Brownfield / Greenfield	♦ + =	Water / glycol	-
Mid-sized HPC/AI	5L500E	5	100 kW	Brownfield	6	🖒 Water / glycol	-
Prototype Al factory							
Large-scale HPC/AI (room neutral)	12XL1200E	12	100 kW	Brownfield / Greenfield	७ + =	Water / glycol	-
Large-scale HPC/AI	14L1400E	14	100 kW	Brownfield / Greenfield	6	W ater / glycol	-

Note: Full cooling capacity may require supplemental cooling capacity from air or other system, as direct-to-chip liquid cooling technology uses cold plates that do not remove 100% of heat from servers.

Availability varies by region, contact Vertiv for details. The images shown are for representation and may not be an exact representation of the product.

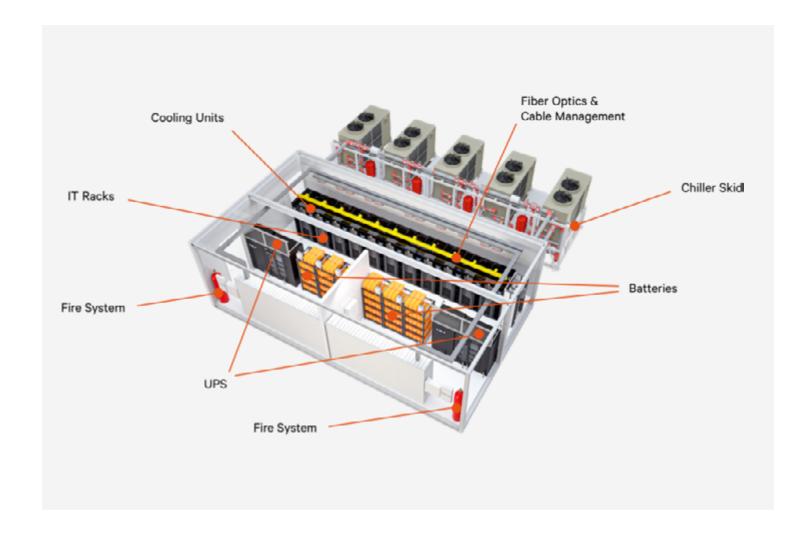


Deploy a full AI data center with the Vertiv™ SmartMod™ HDX

The SmartMod™ HDX provides everything you need to get started with a fully equipped modular data center for AI, and can be deployed without disturbing existing IT workloads.

It features a simple, scalable data center design that uses pre-engineered Vertiv building blocks to create a full solution, consisting of the Power Module, IT Hall, and Chiller Skid for heat rejection.

In addition, Vertiv also can provide end-to-end services for a worry-free startup and ongoing operations, including deployment, commissioning, ongoing maintenance, spare parts, and ongoing training.



Vertiv[™] SmartMod[™] HDX data center solution includes:

- UPS power -Monolithic Vertiv[™]
 Liebert® EXL S1 UPS, with Dynamic
 Grid Support for enhanced grid
 interactive capabilities
- Batteries Reliable battery backup with Valve-regulated lead acid (VRLA), or lithium-ion batteries
- Vertiv[™] Liebert[®] DCL Modular Rack Cooling, Closed Loop Cooling Architecture (up to 35 kW/rack)
 or
- Vertiv[™] Liebert[®] DCD rear-door heat exchangers (passive or active, up to 50 kW/rack) Next Generation High Power Density Data Center
- Vertiv[™] Liebert[®] HPC-S chillers with free-cooling option

- Vertiv[™] IT Racks
- Vertiv[™] Geist[™] High-Density rack PDUs
- Automatic Transfer switching functionality – Automatic switching between primary and secondary power sources
- Overhead infrastructure Including chilled water piping, fiber ducts and mesh cable trays

- Clean agent fire suppression and aspiration smoke detection (as optional item)
- Ancillary systems CCTV, Access Control and Intrusion Detection (as optional items)
- SCADA-based Building Monitoring System (BMS) with a SQL database (as optional item)



Exterior view of the Vertiv™ SmartMod™ HDX DCL

Why customers choose prefabricated modular solutions for AI



Maximize Space Utilization

- Maintain existing footprint and workloads.
- Compaction design-practice unlocks up to 25% space over traditional builds.
- Custom and hybrid solutions.



Improved Build Quality, Reduced Field Work

 Productizing non-repeatable field work in the factory, improving build-quality and customer's total cost of ownership.



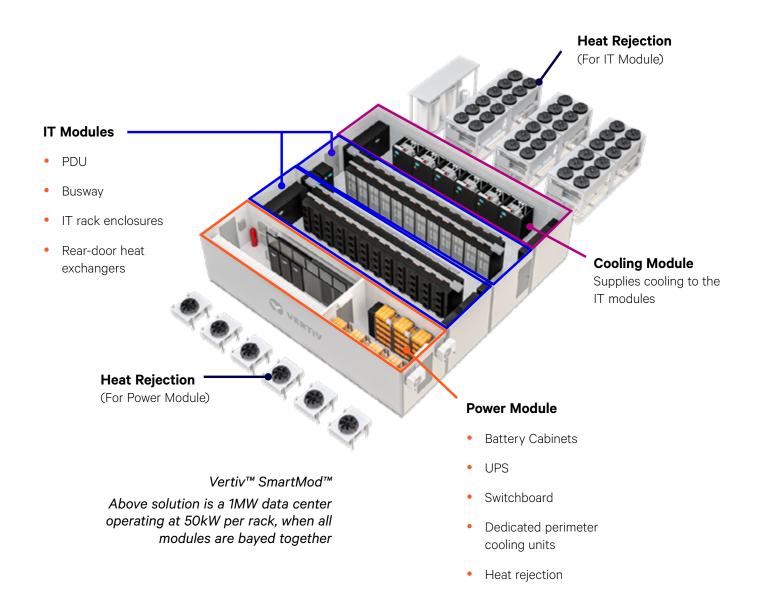
- Repeatable factory-integration reduces deployment up to 50%.
- Global supply-chain and service delivery footprint.

Learn More



Rapidly design and deploy a full AI data center

Vertiv offers 20+ years of expertise in integrating and optimizing infrastructure, with design, integration, and deployment capabilities under one roof.



The tools you need to manage all of your high-density power and cooling infrastructure

Vertiv[™] 360Al solutions support network communications and software to provide centralized and remote visibility across the entire solution, with unmatched controls capabilities across power and cooling technologies.

Monitoring



Vertiv™ Environet™ Alert

Critical facility monitoring platform delivering superior monitoring, alerting, trending and data organization capabilities

Vendor-neutral SNMP device management – integration of thirdparty devices available upon request.

Affordable solution - Pricing is based on the number of devices to offer the solution is budget-friendly for SMBs and Enterprises to deploy.

Fast and easy configuration –

Manage your own system configuration

Manage your own system configuration and changes.

Full suite of Services – Optional service packages are available to support for installation, startup and firmware upgrade.

Customized Data Visualization – Set your own views and dashboard layouts to focus on the data you need most.

Thermal Controls



Vertiv™ Liebert® iCOM™ CWM

Advanced chilled water cooling manager allows for full coordination of chillers and chilled water cooling units to optimize the entire system

Chiller teamwork optimization – control the entire system using ΔT or ΔP , and enable chillers to work as a team to maximize efficiency.

Cooling Economization – new energy optimization algorithm continuously coordinates the indoor cooling unit with the chiller to extend freecooling operation to reduce energy use.

Easy Installation – Plug and play installation and ready to connect.

BMS Integration - Use Modbus or BACnet over IP and integrate with external BMS.

Backwards Compatibility – upgrade existing Vertiv thermal management units.

Energy & Power Management Systems



EPMS

Combined energy and power management solution to provide visibility and control over facility power operations

Flexible deployment – can be deployed as a cloud software or on-premise.

Data lake integration – centralize your data from equipment processes and enable digital services.

Embedded analytics – enable both proactive and predictive maintenance, ensuring continuous power flow and extending equipment lifespans.

Digital services – ranging from anomaly detection and notification, to event and fault recording and troubleshooting, commissioning support, remote monitoring, condition-based monitoring, and more.

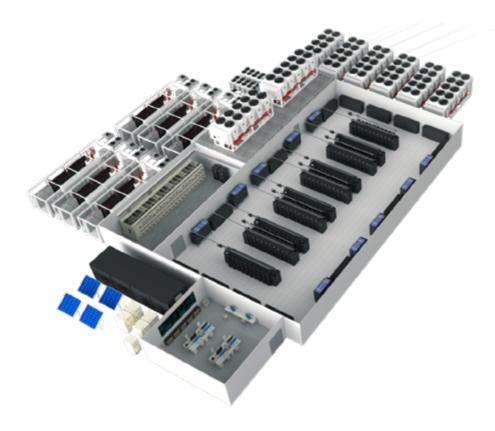
Data analysis and communication on thermal conditions across multiple locations and regions.

4



Meeting the unprecedented power demands of AI

Rather than disturb existing workloads to scale power capacity, Vertiv[™] 360Al solutions include modular solutions that can be deployed without using existing footprint.



Vertiv[™] DynaFlex Battery Energy Storage System



Prevent the grid from constraining Al performance

- Enable renewable and hybrid energy strategies
- Provide "always-on" power
- Supports diesel genset replacement

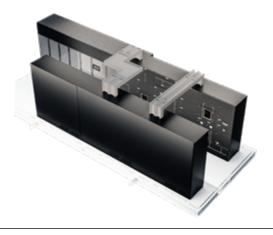
Vertiv[™] Power Modules



Rapidly scale capacity for Al without floorspace

- Scalable and modular building block
- Deploy without impacting existing workloads
- Factory integrated solution to reduce installation time and reduce risk

Vertiv™ PowerNexus



Keep pace and maximize your floorspace for Al deployments

- Close-coupled UPS, Switchgear, and busbar to power Al data centers.
- Reduce installation time and reduce risk with factory pre-integration options.
- Flexible deployment options including in an enclosure, on a skid, or field installation.

High-amperage, overhead power distribution



Get more power to every rack for AI workloads

- Hot-swap without any special tools with built-in safety and plug-and-play features allowing.
- Reduces CAPEX no need for raised floors | to distribute power.
- Smart metering to monitor efficiency and capacity.

High-density rack PDUs



With standard capacities up to 80A for high-density AI applications, and higher capacities available when required through our Engineered-to-Order rack PDU program

- Compact design fit up to 4 in a single rack.
- Outlet monitoring and switching to track and control workloads remotely with software suite.
- Connect up to 16 environmental sensors to monitor temperature, humidity, dew point, and water leaks.



Flexible cooling strategies for retrofits and new builds

Al workloads will require new cooling strategies and may even require combining air and liquid in the same IT rack. Vertiv™ 360Al includes a wide range of cooling and heat rejection combinations to create the best cooling strategy for your application

Direct-to-Chip Coolant Distribution Units (CDUs) and Manifolds



- Optimize floorspace with in-rack and in-row form factors available.
- Precise Temperature Control to eliminate thermal shock for server CPU and GPUs.
- Redundant Pumps and Dual Power Feeds for optimizing reliable operation.
- Teaming Capabilities allow for fleet control to optimize efficiency and reliability.
- Innovative Stainless-Steel Design and Hygienic Couplings help ensure Secondary Fluid Network integrity.
- Row Manifolds overhead manifolds included, no raised floor required.
 (Underfloor available upon request).
- Rack Manifolds compatible with quick disconnects.

Rear-Door Heat Exchangers



- High energy efficiency and low power consumption reduces operational costs.
- **Scalable Capacity** each model can operate anywhere from 0-100% load to accommodate variation in cooling system demand.
- Uses Zero Floor Space mounts directly to the rear of the rack, replacing the door and saving valuable floor space.
- **No residual heat** cools hot air before it exits the rear of the rack to eliminate the potential for hot spots.
- Ability to retrofit install in existing applications allowing for scalability and future expansion.
- Smart controls and monitoring capabilities gives users peace of mind through remote access to room conditions.

Heat Rejection and Supplemental Air Cooling

Direct-to-chip liquid cooling uses cold plates inside liquid-cooled servers. These cold plates do not remove 100% of the heat generated by the server and require supplemental cooling to remove the residual heat.



Packaged Outdoor Systems



Indoor Chillers Systems



In-Row Cooling



Outdoor Chillers



Room Cooling

Server Racks



- High-Capacity for high-density applications.
- Designed to enable full integration & shipping of IT systems.

Environmental Monitoring & Leak Detection



- Environmental Sensors monitor rack enclosures for temperature, humidity, and dewpoint.
- Leak Detection Up to 100 feet of moisture sensing cable to detect any moisture.

The images shown are for representation and may not be an exact representation of the product.



End-to-end services for seamless Al deployments

End-to-end lifecycle services are included with Vertiv[™] 360Al solutions to streamline deployment and maintain high-density infrastructure, including liquid cooling systems.



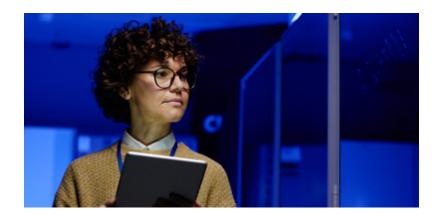
Deployment

- Site assessment.
- Design.
- Project management.



Commissioning

- Installation.
- Startup.
- Testing.
- Complete packages available with commissioning levels L1 to L5 overseen by specialized Vertiv project managers guiding to every step of the way.



Maintenance

- Preventative maintenance.
- Fluid management.
- Troubleshooting.
- Liquid-Cooling Ready fluid management capabilities include coolant sampling, quality testing, adjusting, and ecological disposal.

Services for the entire lifecycle anytime, anywhere

50+ years building and servicing the world's most critical infrastructure, with end-toend capabilities for high-density environments.



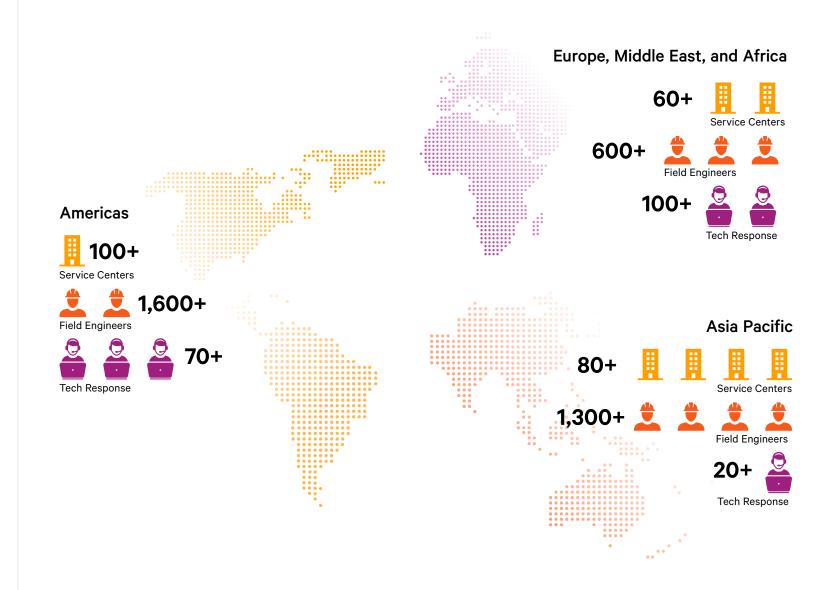
240+Service Centers



3,500+Field Engineers



190+ Tech Response





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