

High Density,
High Efficiency
Mobile Computing

SGI® ICE Cube™ Modular Data Center

KEY FEATURES

Up to 1540U of available space for fully customizable SGI Eco-Logical™ servers and/or storage

Up to 22,400 processing cores leveraging Intel® Xeon® quad-core processors or 11.8 petabytes of storage

Sophisticated cooling technology enables up to 80% reduction in cooling and air handler costs vs traditional data center

Easy serviceability with wide, up to 36" central aisle for ample room to access systems

Leverages DC Power and self-contained UPS technology for maximum power efficiency; PUE < 1.2

Quick and easy deployment for immediate functionality

Secure, nondescript, weather-tight ISO shipping container for easy portability (truck, rail, ship)

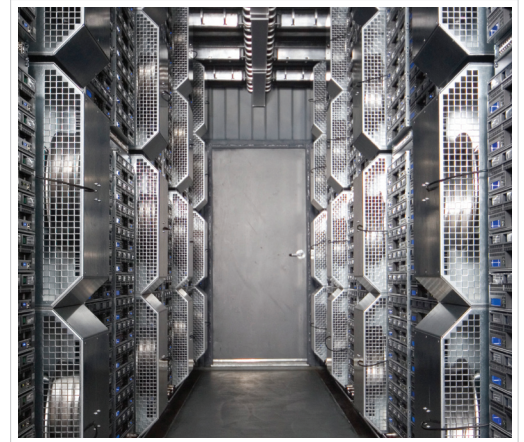


SGI introduces ICE Cube, a self-contained, fully portable data center featuring extreme server and storage density with highly efficient cooling and easy serviceability. Designed to augment or replace traditional brick-and-mortar data centers of any size, ICE Cube features compute density levels of up to 22,400 cores or storage capacity of up to 11.8 petabytes of storage in a compact 40' x 8' shipping container.

ICE Cube leverages SGI's proven experience in server, cabinet and power infrastructure to achieve high density in a small footprint. Its unique cooling technology dramatically reduces cooling costs by as much as 80% over a traditional data center, and enables the total elimination of system-level fans for further power reductions. The solution also leverages SGI's award-winning, patented DC Power technology for best possible efficiency and reliability.

The spacious interior includes room for up to 1540U of SGI compute or storage systems—with additional space for networking gear and all relevant infrastructure. A large vestibule provides additional space for IT administrators to store gear, or to work in.

The new XE2208 Extreme Efficiency server is our first model designed from scratch to maximize the density and efficiency of ICE Cube deployments.



Packing up to eight processors and eight TB in only 2U of rack space, the XE2008 doubles the maximum core density previously available without compromising local storage requirements.

Designed to reduce data center costs, deployment times and maintenance, ICE Cube is an ideal solution for companies looking to inexpensively and easily expand their existing data centers, provide for disaster recovery or completely eliminate expensive new brick-and-mortar data center construction. ICE Cube can be deployed in nearly any location and features self-contained cooling and UPS technologies.



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The ICE Cube Advantage

First deployed in March, 2007, the award-winning ICE Cube modular data center delivers key SGI innovations, including breakthroughs in rack-level density and mounting techniques, fan-less system designs, high efficiency DC Power distribution and integrated UPS technology. ICE Cube leverages the full range

of Intel® Xeon® dual- and quad-core processors, enabling high performance and availability. Its innovative cooling technology enables a reduction in cooling and air handler power costs by up to 80% over traditional brick-and-mortar data center environments.

	SGI ICE Cube	Key Advantages
Max. Density	<ul style="list-style-type: none"> · 28 racks of servers · 1540U · 22,400 cores · 11.8PB storage 	Highest modular computing density
Power	480/277 VAC	Eliminates need for intermediate transformer
Cooling	80% reduction in HVAC costs	Superior cooling vs. traditional data centers
UPS	Rack-level system	More uptime for servers and cooling fans
Server Power	DC	Increased efficiency and reliability
Service Model	Standard aisle	No special tools and jack needed
System Fans	No	Power savings, improved reliability and availability
Airflow	Localized	Eliminates hot spots
Vestibule	Yes	Optional space available for storage and interior work area
Container	<ul style="list-style-type: none"> · Standard ISO shipping container · Transported via land, rail or sea · Choice of 20' or 40' lengths 	Flexible container sizes and mobility options

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