

Technical Data Sheet



ICEOTOPE KUL AI G293

KUL AI G293 FEATURES:

- Gigabyte G293 immersion-ready server
- KUL AI rack-mountable enclosure
- Up to 8 NVIDIA GPUs

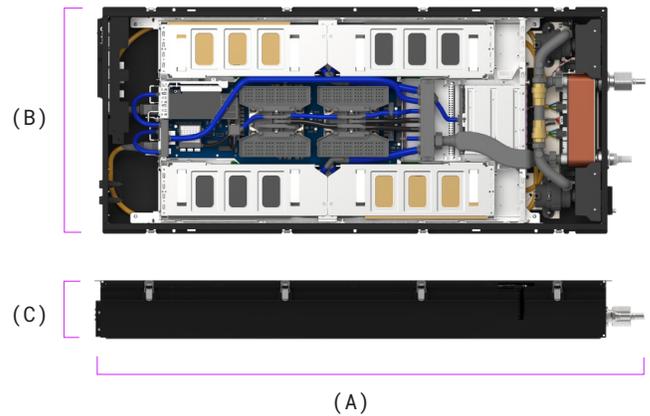
A wide range of immersion-ready configurations are supported; contact sales@iceotope.com for more information.

PRECISION LIQUID COOLING BENEFITS¹:

- Up to 40% less power usage
- Up to 96% less water usage
- Up to 83% lower cooling costs

¹ Per kW of ITE Power, vs. air-cooled servers: <https://iceotope.info/cundallreport>

Sustained Compute Performance	Low Op-Ex Costs	Extended UPS Runtime	Increased Hardware Stability
Environmental Resilience	Near Silent Operation	Sustainable Operation	Rapid Deployment



SHIPPING / INSTALLATION / SERVICE / WARRANTY

Each KUL AI server is pre-integrated with all hoses, brackets, rails and hardware required for simple rack integration. Dielectric fluid is provided separately.

DIMENSIONS / WEIGHT

Length (A)	47.6" / 121cm
Width (B)	21" / 53cm
Height (C)	3U / 13.5cm
Installed weight (NET max)*	201 lbs / 91kg
Packaged weight (GROSS max)*	280lbs / 127kg
Packaged dimensions	L54"/136cm / W25"/64cm / H24"/62cm

POWER / COOLING

AC Input type and max quantity (A+B)	C20 x 2
AC Input voltage	220-240V AC 1ph
AC Input frequency	50-60Hz
Maximum configured power of G293 + KUL AI (hi-spec config)	4.3 kW (power and cooling redundant)

COOLING REQUIREMENTS

TCS Flow rate per enclosure	2.4 US Gal.pm / 9 Lpm
Maximum TCS inlet temperature	104 °F / 40 °C
TCS fluid compatibility	PGM / EGM / water + inhibitor pack
Max rated TCS system pressure	4.4 bar(g) / 64 PSI(g)
Dielectric Fluid Qty (max)	6 US Gal. / 27 L



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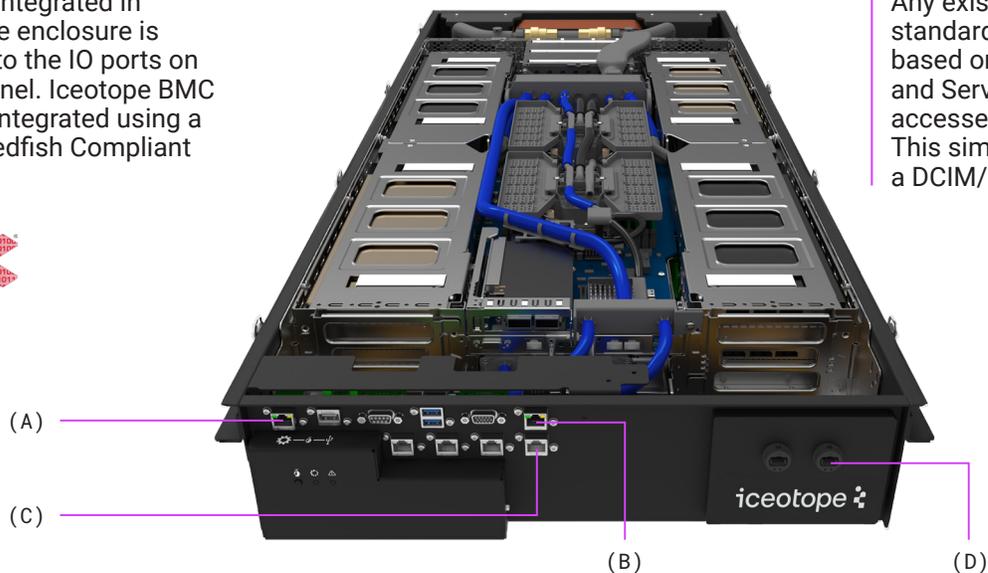
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The server integrated in the Iceotope enclosure is connected to the IO ports on the front panel. Iceotope BMC (A) can be integrated using a standard Redfish Compliant interface.



Any existing DCIM/BMS can use standard commands to run alerting based on Iceotope metrics. Iceotope and Server BMC can also be accessed via the same interface. This simplifies the integration with a DCIM/BMS program.



TECHNICAL SPECIFICATIONS

GPU	8x L40S / 8x H100 PCIe / 6x H100 NVL 4x H200 NVL by request
Processor	2x Intel Xeon Scalable CPUs (4th or 5th gen); AMD CPUs available by request
Memory	16 DDR5 DIMM slots, supporting RDIMM 8 TB maxSpeeds up to 5600 MT/s
Storage Controllers	Intel SATA RAID 0/1/10/5
Drive Bays	8 x 2.5" Gen 4 NVMe / SATA / SAS
Cooling	Single-phase hydrocarbon (see website for approved fluid vendors)
Power Supplies	Dual 3000W AC Titanium Power Supply
Embedded Management	Gigabyte Management Console web interface Redfish Web-based interface
Networking	2x 10Gb/s LAN (1x Broadcom BCM57416) 1x Configurable Network Card up to 200Gb/s

ENHANCED PRODUCT OFFERINGS

System Redundancy

Incorporated dual power inlet + 2x enhanced-spec pumps

Scalability Package

Modular architecture, dielectric fluid fill level, coolant temperatures, enhanced pump metrics and reporting

Serviceability Package

Removable chassis hoses + slide rails for ease of in rack servicing

MONITORING AND MANAGEMENT

KUL AI Ports (A)	1x 1Gb Ethernet + 1x USB 2.0
Server Basic Ports (B)	1x 1Gb Ethernet + 2x USB 3.0 + 1x VGA
High Speed Networking Ports (C)(D)	4x 10Gb Ethernet + 4x QSFP28 or 4x SFP28 or up to 4x Optical Ports
Integral server-specific monitoring	Full access to onboard BMC monitoring functionality
Precision Liquid Cooling system-specific monitoring	Pump health, pump RPM and power, fluid fill level, temperature

WARRANTY

Iceotope offers a comprehensive three year parts and labor warranty. Further detail on request.

REGULATORY COMPLIANCE

Iceotope products are stringently engineered in accordance with relevant regional standards. Further detail on request.



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