

Technical Data Sheet



ICEOTOPE KUL AI G293

KUL AI G293 FEATURES:

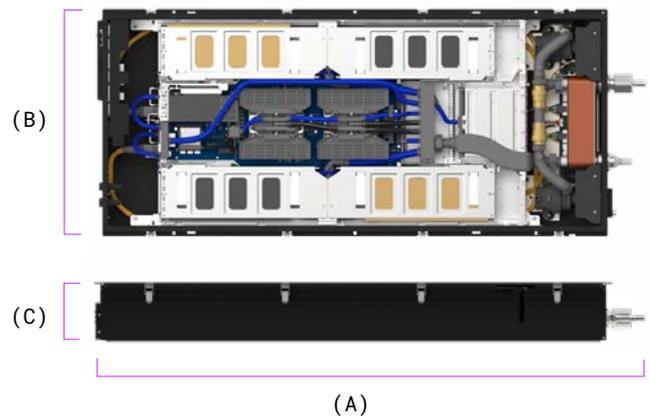
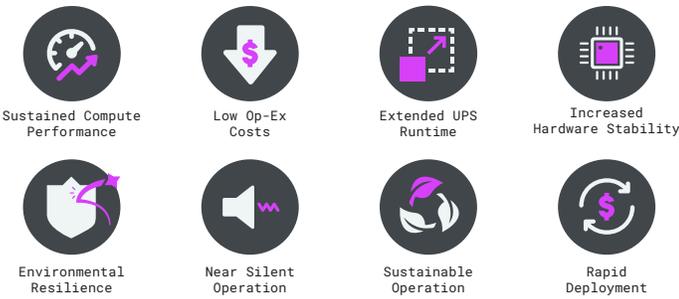
- Gigabyte G293 immersion-ready server
- KUL AI rack-mountable enclosure
- Up to 8 NVIDIA GPUs

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

KUL AI BENEFITS:

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

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



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



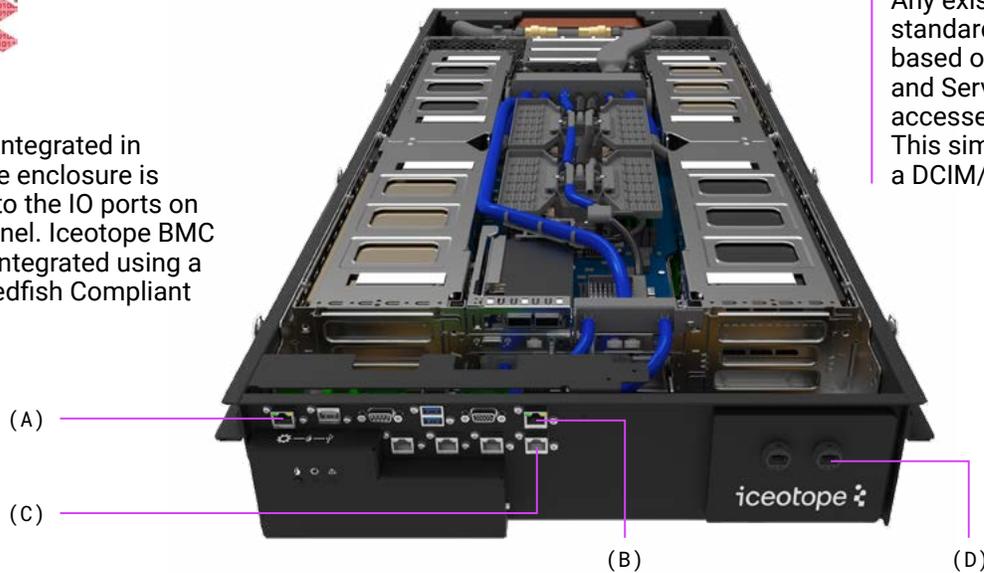
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The server integrated in the Iceotope enclosure is connected to the IO ports on the front panel. Iceotope BMC (A) can be integrated using a standard Redfish Compliant interface.

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	Optimised Precision Liquid Cooling Approved fluid
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 Gigabytes 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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