

Technical Data Sheet



KUL AI GIGABYTE G293



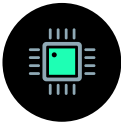
Performance Optimized



Operationally Efficient



Highly Scalable



Increased Hardware Stability



Sealed and Protected



Near Silence Operation

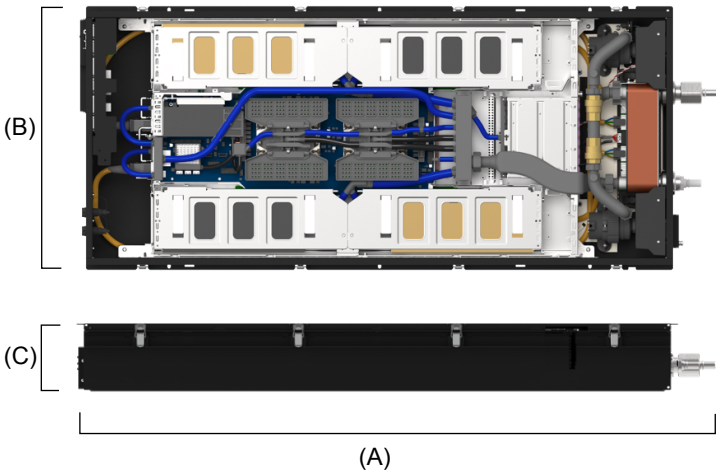


Environmental Sustainability



Cost Effective

This datasheet provides detailed specifications relating to a Gigabyte G293 immersion ready server configured and integrated into an Iceotope KUL AI rack mountable enclosure. Compatible with Iceotope KUL AI Platform infrastructure. See KUL AI Platform Data Sheet for more information on rack integration. A wide range of immersion ready configurations of the Gigabyte G293 server can be supported. Contact our sales team with your server configuration requirements.



Dimensions and 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)*	280 lbs / 127kg
Packaged Dimensions	L54"/136cm / W25"/64cm / H24"/62cm

Each KUL AI server is supplied pre-integrated and packaged complete with accompanying hoses, brackets, rails and other ancillaries required for simple rack integration. Dielectric fluid is provided separately.

Power	
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)

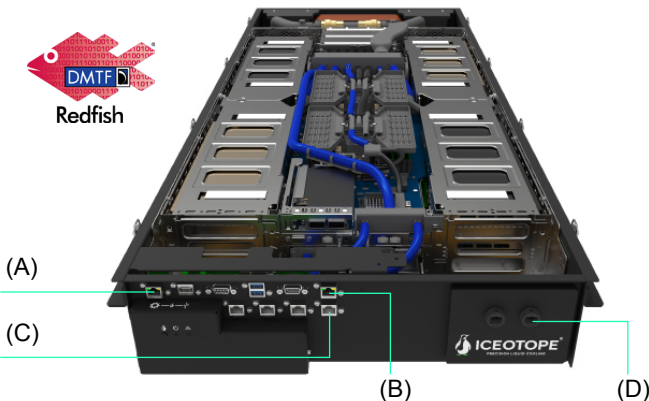
Cooling Requirements	
TCS Flow rate per enclosure	2.4 US Gal.pm / 9 Lpm
Maximum TCS inlet temperature	104 °F / 40 °C
TCS fluid compatibility	PGM / EGM / water + inhibitor pack
Max rated TCS system pressure	4.4 bar(g) / 64 PSI(g)
Dielectric Fluid Qty (max)	6 US Gal. / 27 L



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Precision Liquid Cooled GIGABYTE G293



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.

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

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

Processor	Up to two 4th or 5th Generation Intel Xeon Scalable AMD version by request
Memory	16 DDR5 DIMM slots, supporting RDIMM 8 TB max Speeds 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 - Shell S3X

Power Supplies	Dual 3000W AC Titanium Power Supply
Embedded Management	Gigabyte Management Console web interface Redfish Web-based interface
GPU	8x L40S / 8x H100 PCIe / 6x H100 NVL 4x H200 NVL by request
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

Regulatory Compliance

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



Warranty

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

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