Technical Data Sheet

ICEOTOPE®

KUL AI HPE DL380 Gen 11

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 HPE DL380 Gen 11 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 configurations of the HPE DL380 Gen 11 server can be supported. Contact our sales team with your server configuration requirements.

(B)

(C)

(A)

Dimensions and Weight	
Length (A)	47.6″ / 121cm
Width (B)	21″ / 53cm
Height (C)	3U / 13.5cm
Installed weight (NET max)*	179 lbs / 81kg
Packaged weight (GROSS max)*	258 lbs / 117kg
Packaged Dimensions	L54″/136cm / W25″/64cm / H24″/62cm

Each KUL AI server is supplied pre-integrated 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)	C14 x 4
AC Input voltage	110-240V AC 1ph
AC Input frequency	50-60Hz
Maximum configured power of DL380 + KUL AI (hi-spec config)	2.2 kW (power and cooling redundant)

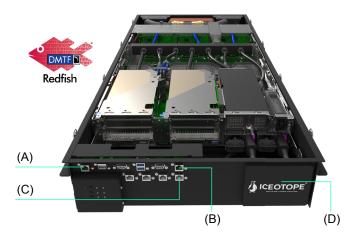| Cooling Requirements	
TCS Flow rate per enclosure	1.2 US Gal.pm / 4.6 Lpm
Maximum TCS inlet temperature	104 °F / 40 °C
TCS fluid compatibility	PGM / EGM / water + inhibitor pack
Max rated TCS system pressure	4.4 bar(g) / 64 PSI(g)
Dielectric Fluid Qty (max)	5 US Gal. / 20 L

(A)   (B)

IN   OUT

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(A)
(C)
(B)   (D)

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 2 Ports (A)	**1x 1Gb Ethernet + 1x USB 3.0**
Server Basic Ports (B)	**1x 1Gb Ethernet + 1x 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
Memory	32 DDR5 DIMM slots, supporting 8 TB max Speeds up to 5600 MT/s
Storage Controllers	PCIe RAID: MR416i-p, SR932i-p, OCP RAID: MR416i-o, MR216i-o, MR408i-o
Drive Bays	Up to 3x 12 EDSFF E3.5 NVMe Gen 5 Drives Up to 3x 8 SFF/SATA/NVMe U.3 Drives HPE NS204i-u Gen11 NVMe Hot Plug Boot
Cooling	Optimised Precision Liquid Cooling Approved fluid - Shell S3X

Power Supplies	Dual 1000W AC Titanum Dual 1800W-2200W AC Titanum Dual 800W Low Halogen AC Platinum Dual 1600W Low Halogen AC Platinum
Embedded Management	HPE Management Console web interface (iLO) Redfish Web-based interface
GPU	3x L40S / 3x H100 PCIe
Networking	2x 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.

c(UL)us LISTED   CE   UKCA   FC   RoHS COMPLIANT   REACH COMPLIANT

Warranty

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

Email: sales@lceotope.com | Visit: www.iceotope.com