



Do More.



LiquidJet® Coldplate

A coldplate that evolves as fast as the chips it cools.

LiquidJet® Coldplate

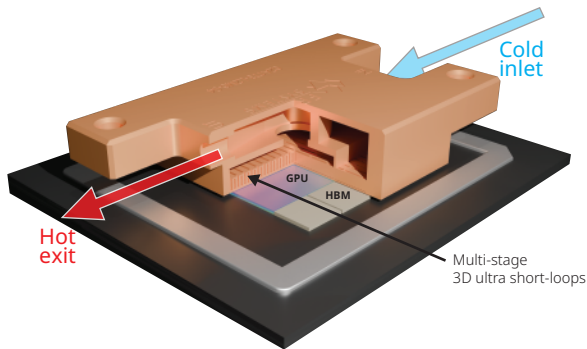
A coldplate that evolves as fast as the chips it cools.

DESCRIPTION:

LiquidJet is a 3D ultra short-loop coldplate that features unique multi-stage cooling architecture, and is customizable to any GPU power map. LiquidJet's innovative multi-stage architecture delivers 75% higher heat transfer efficiency. It enables the entire flow to be concentrated to first cool the hotspots, before cooling the other areas of the GPU die, HBMs and other chiplets in the SoC. LiquidJet supports hotspot cooling up to 670 W/cm^2 for a $5 \text{ mm} \times 5 \text{ mm}$ hotspot @ 25°C inlet temperature, $95^\circ\text{C } T_{j\text{max}}$ with PTM7950 TIM in an unlidded package, exceeding the requirements of future GPUs: Rubin Ultra, Feynman, MI455, MI500, and custom hyperscaler ASICs.

3D MICROSTRUCTURE CORE:

Fore Systems takes a unique approach to LiquidJet coldplate manufacturing, adapting semiconductor processes to metal wafers, fabricating multi-stage cooling architecture with innovative 3D ultra short-loops, that are designed precisely to the power maps of data center GPUs.



LIQUIDJET PERFORMANCE ON NVIDIA GB300 COMPARED TO SKIVED COLDPLATE:

- 75% higher heat transfer efficiency
- 6 - 12°C cooler GPU
- 10 - 25% higher AI Tokens per watt
- Seamless drop-in upgrade

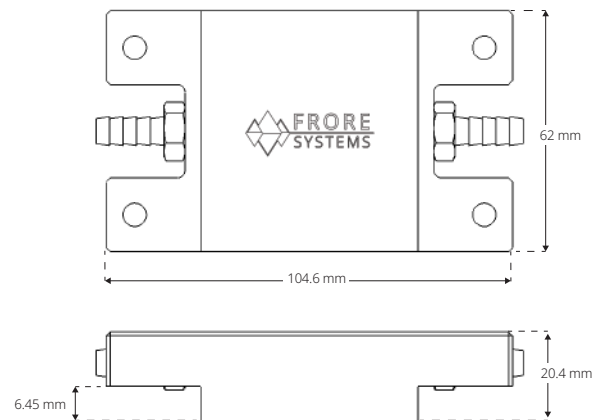
SPECIFICATIONS:

LiquidJet dimensions shown are customized to the target GPU.

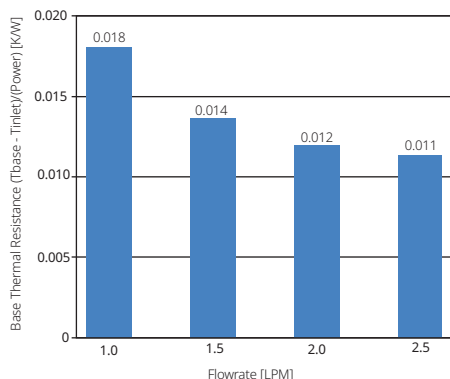
Measurements for NVIDIA GB300

Length: 104.6 mm Width: 62 mm Height: 20.4 mm

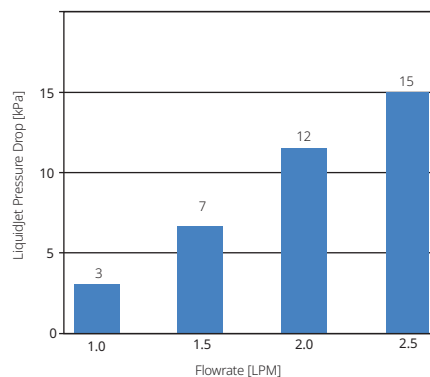
Material: Copper



GB300 LIQUIDJET THERMAL RESISTANCE:



GB300 LIQUIDJET PRESSURE DROP



SCAN FOR MORE
INFORMATION