



AirJet®PAK 5C-G2

Designed to complement AI SoM Modules like NVIDIA's Jetson Orin and Thor to unleash AI Performance.

- Fully self contained, plug and play thermal solution that includes multiple AirJet chips and drive circuitry
- Mounts directly on AI SoM Modules like NVIDIA's Jetson Orin and Thor
- Autonomous operation
- Thin, silent, vibration free, dustproof, and water-resistant
- Supports up to 185 TOPS on NVIDIA Jetson
- Dissipates up to net 45 W of heat @ 25°C ambient, T_j 115°C

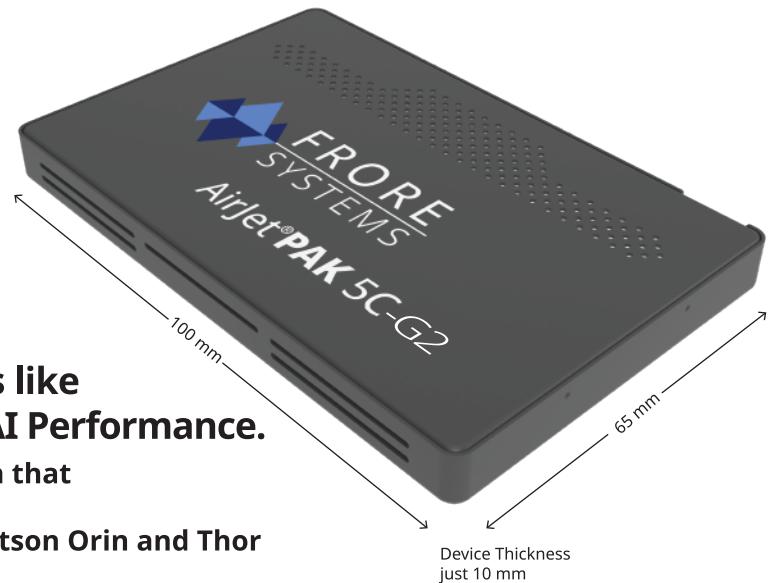
Heat is the biggest bottleneck in computing, but cooling is the only aspect of modern day computing that still uses century old technology. The need for vastly improved cooling to enable the massive processing required by AI is increasing rapidly, and with the forecast demand for Edge AI estimated to increase by over 300% by 2030, it will not slow down anytime soon.

The **AirJet PAK**, the world's first solid-state active cooling solution for Edge AI, leverages the revolutionary active cooling AirJet chip. The **AirJet PAK 5C-G2** is a fully self contained active heat sink module.

Powerful Heat Removal - AirJet PAK 5C-G2 removes net 45 W of heat at a silent 29 dBA, while consuming a maximum of 7.5 W of power, when integrated into an industrial compute platform at 25°C ambient, outperforming fans in compact Edge AI devices.

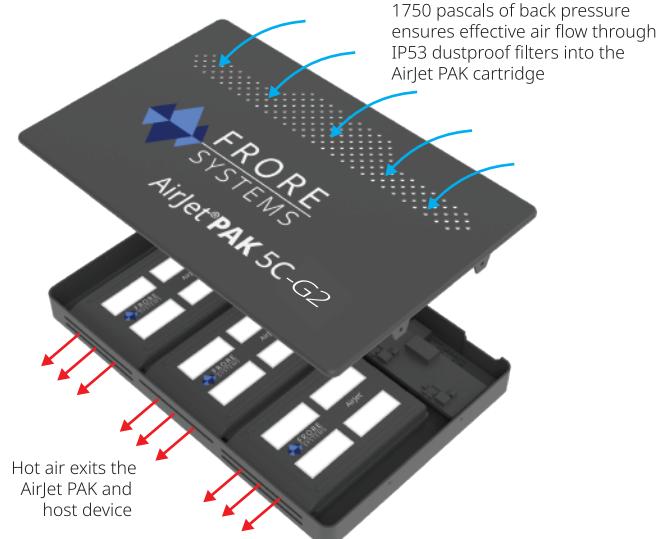
Unleashing AI Performance - Designed to work seamlessly with AI SoM Modules like NVIDIA's Jetson Orin, the **AirJet PAK 5C-G2** is just 10 mm thick. This ultra-slim profile opens up new possibilities for manufacturers catering to customer demand for higher performance in more compact, silent, vibration free, dustproof, and water-resistant devices.

Metric	AirJet®PAK 5C-G2
Total net heat dissipation (@ 25°C ambient, T_j 115°C)	45 W
Maximum noise (at 50cm)	29 dBA
Maximum power consumption	7.5 W
Input Voltage	12 V
Back pressure	1750 Pa
Dimensions (width x length x thickness)	100 x 65 x 10 mm
Weight	101 g



NVIDIA Jetson	AirJet PAK	TOPS	Power
AGX Orin 32 GB (@ 25°C ambient, T_j 95°C)	AirJet PAK 5C-G2	185	37 W
AGX Thor 128 GB (@ 25°C ambient, T_j 95°C)	2x AirJet PAK 5C-G2	400	74 W

Each AirJet PAK 5C-G2 contains 5 AirJet Chips - the world's first solid-state active cooling chip.



AirJet® PAK 5C-G2

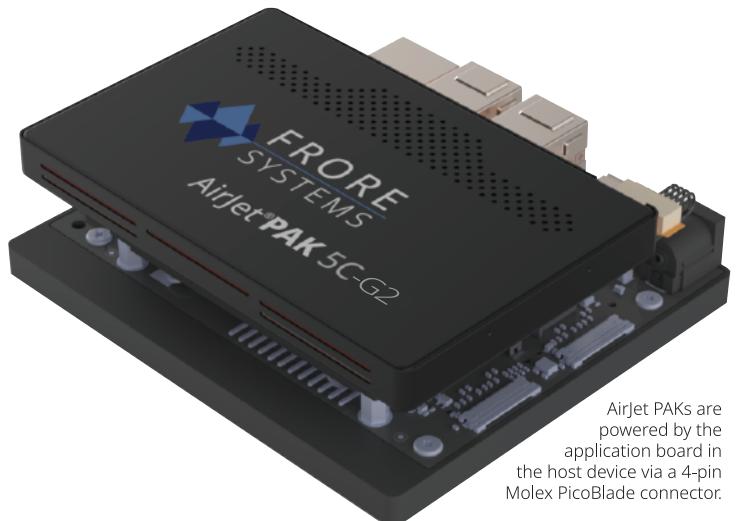
Sustained Performance and Reliability

The **AirJet PAK** generates 1750 Pascals of back pressure, ensuring effective air flow into and out of the cartridge, even with the air inlets covered with IP53 dustproof and water resistant filters. This maximizes reliability and ensures the sustained thermal performance of the **AirJet PAK** and, as a result, the sustained high performance of the dustproof host device.

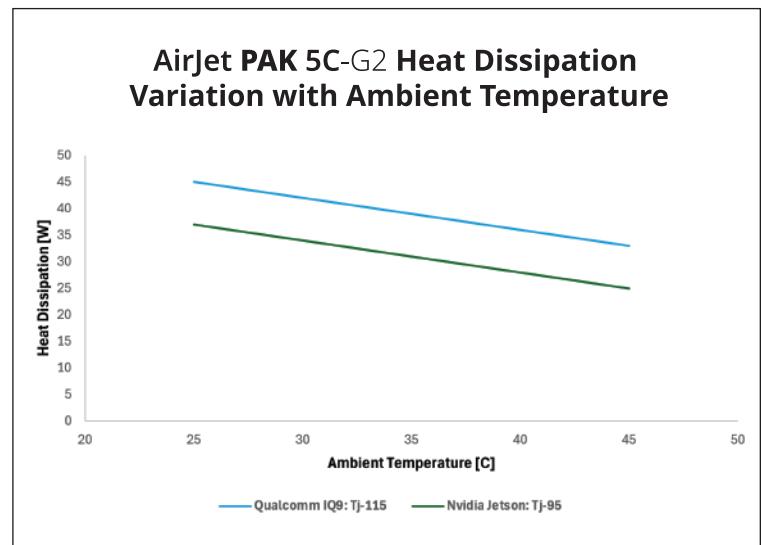
Driven autonomously, all the **AirJet PAK** needs to enable exceptional processor performance is a nominal power source from the host device.

In today's devices, what often determines performance is the capability of the thermal solution, not just the sophistication of the processor.

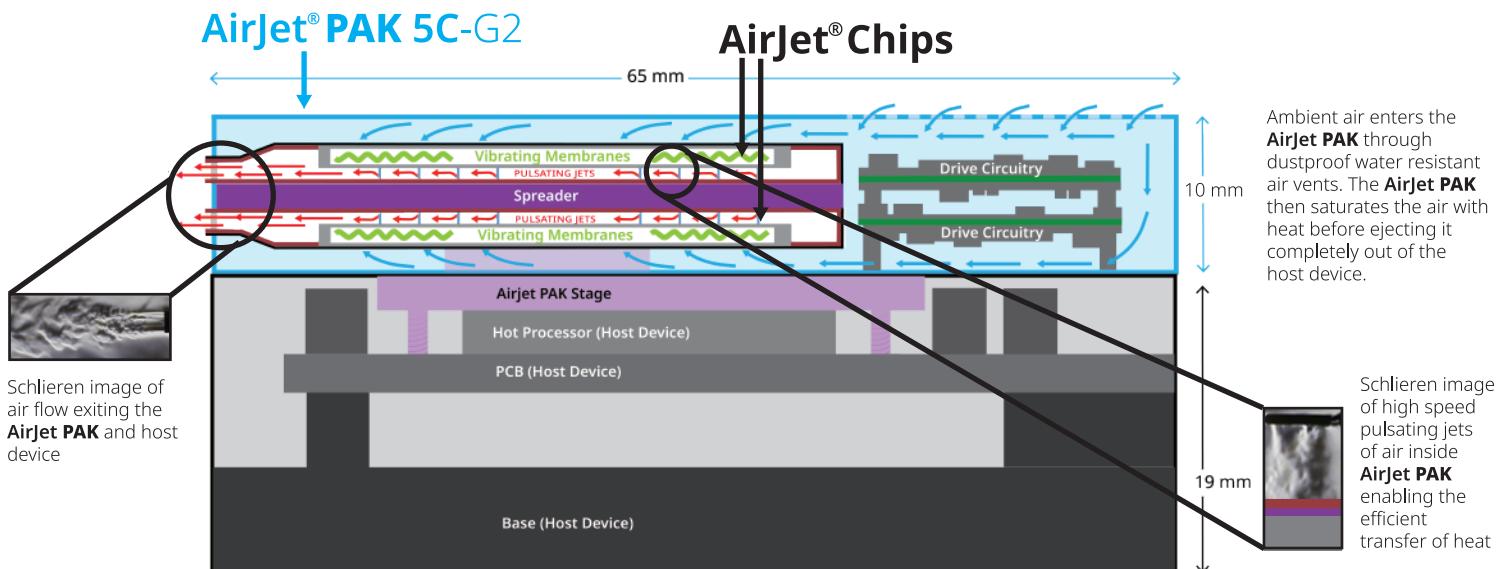
Thanks to **AirJet PAK 5C-G2**, compact Edge AI electronic devices can now deliver on the promise of cutting edge AI technology. [Do more.](#)



Designed to work seamlessly with AI SoM Modules like NVIDIA's Jetson Orin Industrial and Smart City Modules



Cross Section of AirJet® PAK Cartridge Inside Host Device



Schlieren image of air flow exiting the AirJet PAK and host device

Schlieren image of high speed pulsating jets of air inside AirJet PAK enabling the efficient transfer of heat