

## Frore Systems Unveils the Waterproof AirJet® Mini *Sport* the World's First Solid-State Active Cooling Chip supporting IP68 Devices



**SHANGHAI, China – June 25, 2024:** Today at MWC Shanghai, Frore Systems introduced the latest innovation in thermal management technology: the waterproof AirJet® Mini *Sport*. Building on the success of its pioneering AirJet Mini, the World's first solid-state active cooling chip, Frore Systems has enhanced the capabilities of its innovative solid-state active cooling chip to support devices with industry's highest IP68 waterproof rating. In addition to its waterproof capabilities, AirJet Mini *Sport* retains all the intelligent features of the AirJet Mini Slim including dust resilience with self-cleaning, and thermoception. The AirJet Mini *Sport* weighs only 7 grams, is just 2.5mm thick with a tiny 27.5mm x 41.5mm footprint, and silently removes 5.25 W of heat per chip.

The demand for increased device performance has surged, driven by advancements in Edge AI and On-Device AI applications. While the latest processors can deliver mind blowing performance, within seconds they are forced to throttle, or slow down, to prevent overheating which can severely damage device electronics. Traditional active cooling using fans - which are bulky, noisy and pull dust into devices - fall short. Fan based cooling is not waterproof or dustproof and is unable to remove heat adequately to meet the growing demand for increased performance.

With the new waterproof AirJet Mini *Sport*, IP68 devices like smartphones and action cameras can achieve a performance boost of up to 80% while remaining waterproof and dustproof, and without having to compromise on the small form factor users love. The AirJet Mini *Sport* meets the rigorous IP68 standard, demonstrating full performance recovery after submersion in over 1.5 meters of water for 30 minutes. The AirJet Mini *Sport* makes increasing device performance a breeze, enhancing AI processing capabilities in faster, silent, thinner, lighter, vibration free, dustproof and waterproof devices that can be used in any environment.

"We are excited to announce the waterproof AirJet® Mini *Sport*." said Dr. Seshu Madhavapeddy, founder and CEO of Frore Systems. "Consumers demand increased performance in compact devices they can use anywhere, on land or in water. AirJet unleashes device performance, now enabling users to do more with their IP68 dustproof and waterproof devices."

Frore Systems has experienced unprecedented demand for their solid-state active cooling solutions. The company's recent \$80M Series C fundraise, bringing total money raised to \$196M, will be applied to scale operations and expand their product line, ensuring device manufacturers can deliver the highest performing products to consumers anxious for the latest AI capabilities.

Frore Systems, a member of the NVIDIA Inception Program, also recently announced another industry first, the AirJet®PAK. The AirJet®PAKs are plug-and-play active cooling solutions that are only 6mm thick and complement NVIDIA's Jetson Orin system-on-modules. AirJet PAKs are available in multiple sizes removing up to 25 watts of heat and supporting up to 100 TOPS.

The new waterproof AirJet Mini *Sport*, and the AirJet PAK, will be featured at the Mobile World Congress from June 26-28 in Shanghai, alongside a wide range of demonstrations, including smartphones, MacBook Air and iPad Pro, showcasing the increased performance enabled by AirJet.

### About Frore Systems

Frore Systems is the developer of breakthrough thermal technology for electronic and consumer devices. The company's active cooling solutions, the AirJet®Mini, AirJet®Mini Slim, AirJet®Mini *Sport*, and the new AirJet®PAKs, are integrated into devices to remove heat silently, resulting in major performance gains and enabling thinner, lighter, silent, vibration free, dustproof and waterproof devices. Frore Systems is headquartered in San Jose, CA with an office and manufacturing facility in Taiwan. For more information, please visit <https://froresystems.com/>

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The advertisement features a diver in a yellow and black wetsuit, blue mask, and snorkel, holding a small electronic device. The background is an underwater scene with coral and two clownfish. In the top left corner, there is a small image of the AirJet Mini Sport chip. The text 'AirJet®Mini Sport' is prominently displayed in white on a dark blue background. Below it, the text 'The Waterproof Solid-State Active Cooling Chip that boosts performance up to 80% in IP68 Mobile Devices' is written in white. At the bottom, a dark blue banner contains the text 'Unleashing the Performance of Mobile Devices on Land and in Water' in white.

**AirJet®Mini Sport**

The Waterproof Solid-State Active Cooling Chip that boosts performance up to 80% in IP68 Mobile Devices

**Unleashing the Performance of Mobile Devices on Land and in Water**

## What does IP68 Mean










Ingress protection ratings (aka international protection ratings) are a standard set forth by the International Electrotechnical Commission. According to the organization, the codes are designed as a "system for classifying the degrees of protection provided by the enclosures of electrical equipment.

The first number in the rating code represents the amount of protection provided against the entry of foreign solid objects, such as sand or dust. These protection levels range from a low of 0 to a high of 6.

The second number represents the degree of protection against the entry of moisture or liquid, with protection levels ranging from a low of 0 to a high of 9.

# Ingress protection (IP) ratings guide

IP ratings are represented by combining the first and second digits of the below columns

1st numeral - solid foreign objects			2nd numeral - water		
0	No protection		0	No protection	
1	Protected against solid foreign objects of 50 mm Ø and greater		1	Protected against vertically falling water drops	
2	Protected against solid foreign objects of 12,5 mm Ø and greater		2	Protected against vertically falling water drops when enclosure tilted up to 15°	
3	Protected against solid foreign objects of 2,5 mm Ø and greater		3	Protected against spraying water	
4	Protected against solid foreign objects of 1,0 mm Ø and greater		4	Protected against splashing water	
5	Dust-protected		5	Protected against water jets	
6	Dust-tight		6	Protected against powerful water jets	
<b>Example:</b>  <b>IP 65</b> → Protected against water jets → Dust-tight			7	Protected against the effects of temporary immersion in water	
			8	Protected against the effects of continuous immersion in water	
			9	Protected against high pressure and temperature water jets	

Source: International Electrotechnical Commission