

## EMASS Announces Updated Drone Results

*ECS-DoT SoC test results show increased propulsion under less power draw*

**LOS ANGELES (July 1, 2025)** – EMASS, a Nanoveu subsidiary emerging from stealth with next-generation semiconductor technology, has announced the recent findings of their drone test series held in June, 2025.

### **Excerpt of the findings:**

Nanoveu subsidiary EMASS has shown that its ECS-DoT System-on-Chip can deliver a 33% increase in simulated drone flight time (from 60 to 80 minutes) without changing the battery or airframe. The chip runs at 50 Hz, executing full “sense-think-act” loops every 20 ms in a hardware-in-the-loop simulation, with loop-to-loop timing stable and under  $\pm 1$  ms variance. Two AI engines contribute: a surrogate model predicting propulsive power demand (reducing over-thrust events by ~25%) and a reinforcement-learning controller using PPO to optimise throttle and blade pitch, improving flight distance per watt by ~20%, all while keeping AI compute power under 1 milliwatt. Next steps include refining models to aim for 40-70% gains, broadening simulation profiles (different payloads, wind, battery states), testing heavier/multi-platform drones, increasing robustness (fail-safes, redundancy), and moving into live flight trials, with the goal of positioning ECS-DoT for commercial drone, inspection, precision agriculture, logistics, and defence uses.

“Demonstrating a major simulated increase in flight time without altering the drone's hardware is a clear validation of ECS-DoT's real-world potential. This result proves that our ultra-low-power AI engine can deliver meaningful operational gains in energy-constrained environments,” said Mark Goranson, CEO of EMASS. “With further model refinement underway and live flight trials planned, ECS-DoT is now firmly positioned as a solution for autonomous drones and the broader edge-AI landscape. The worldwide drone market size was estimated at USD \$73 billion in 2024 and is projected to reach \$163 billion by 2030, representing a major addressable growth market for our technology.”

Click [here](#) to view the full report.

For more information, visit the [website](#).

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### **About EMASS**

EMASS – a subsidiary of Nanoveu Ltd (ASX: NVU) – is an advanced semiconductor company specializing in ultra-low-power AI system-on-chip (SoC) solutions for edge computing. The company's flagship ECS-DoT chip delivers high-performance AI processing for vision, audio, and sensor data directly on-device, maximizing energy efficiency through its RISC-V architecture and non-volatile memory technologies. This always-on intelligence solution is optimized for power- and space-constrained applications including drones, wearables, healthcare devices and industrial IoT systems. For more information, visit [nanoveu.com/emass](https://nanoveu.com/emass).

### **About Nanoveu**

Nanoveu is a listed company advancing human-machine experiences at the edge through a

portfolio that spans ultra-low-power AI and glasses-free 3D technologies. Its subsidiary EMASS designs advanced system-on-chip (SoC) solutions that deliver efficient, scalable on-device AI for smart devices, IoT applications and 3D content transformation – enhancing Nanoveu’s reach across rapidly growing AI, edge computing and 3D content markets. EyeFly3D™ is Nanoveu’s end-to-end platform for glasses-free 3D, uniting proprietary screen technology with sophisticated content processing software and, now, EMASS’s ultra-low-power SoC to bring immersive 3D to a wide range of devices and industries. The Company also develops and markets an advanced range of self-disinfecting and hydrophobic films and coatings under the Nanoshield™ brand, designed for applications including large-scale CSP and photovoltaic solar installations. Together, Nanoveu’s businesses deliver practical innovation that makes devices smarter, environments safer and experiences more immersive.

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