

# MosChip Collaborates with EMASS on Silicon Implementation for its Breakthrough Edge AI SoC

*MosChip's silicon and product engineering execution supports EMASS's ultra-low-power ECS-DoT SoC*

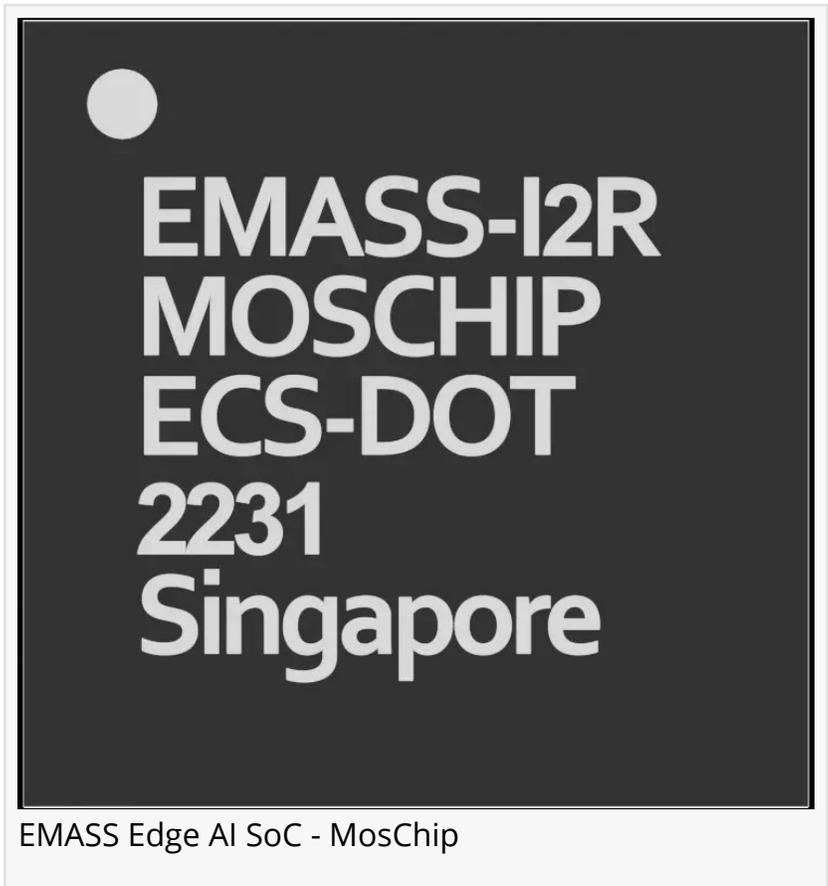
SANTA CLARA, CA, UNITED STATES, December 4, 2025 /EINPresswire.com/ -- MosChip Technologies, a leading player in [silicon and product engineering services](#), today announced its role in supporting EMASS's ECS-DoT Edge AI System-on-Chip (SoC), an ultra-low-power chip designed for always-on intelligence in wearables, drones, industrial IoT, and edge sensors.

EMASS led the ECS-DoT's architecture design and set ambitious targets for performance and energy efficiency, aiming for up to 93% faster processing and 90% lower energy use compared to conventional edge AI solutions. To support this effort, MosChip provided [engineering services for the silicon](#) implementation in 22nm technology - contributing to physical design flows, tape-out coordination, packaging, assembly, evaluation hardware, and validation activities. The collaboration enabled a fully functional SoC and evaluation platform.

"This collaboration demonstrates the impact of pairing innovative SoC architecture with experienced silicon engineering support," said Srinivasa Rao Kakumanu, CEO & Managing Director at MosChip Technologies. "EMASS defined a highly differentiated architecture, and MosChip was pleased to support its silicon implementation through our physical design and [product engineering services](#)."

ECS-DoT: Compact AI at the Extreme Edge

The ECS-DoT is a RISC-V-based Edge AI SoC that integrates dual neural accelerators and 4MB of



EMASS Edge AI SoC - MosChip



MosChip played an important role in supporting the silicon implementation of our architecture.”

*Mark Goranson, CEO at  
EMASS*

on-chip memory. It enables real-time, milliwatt-class inference for vision, audio, and sensor workloads without cloud dependency. Optimized for power- and space-constrained applications, ECS-DoT provides always-on AI capabilities for drones, wearables, healthcare trackers, and industrial monitoring systems.

“MosChip played an important role in supporting the silicon implementation of our architecture,” said Mark

Goranson, CEO at EMASS. “Their contributions in physical design, product engineering, and validation complemented our internal efforts and helped us bring a robust SoC to our OEM partners.”

#### 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 MosChip

MosChip Technologies is a leading silicon and product engineering company with 26 years of expertise spanning silicon design, embedded systems, digital engineering, and AI. From ASICs to AI-led products, MosChip partners with global semiconductor companies and OEMs to design, engineer, and deliver next-generation solutions across industries. For more information, visit: [www.moschip.com](https://www.moschip.com)

Sooryanarayanan Balasubramanian  
MosChip Technologies, USA  
[press@moschip.com](mailto:press@moschip.com)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/871496700>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.