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ASX RELEASE **19 December 2025**

ASX: NVU

Investor Webinar Presentation

Nanoveu Limited (ASX: NVU, OTCQB: NNVUF) ("Nanoveu" or the "Company"), a technology innovator across advanced semiconductor, visualisation, and materials science, is holding its webinar commencing at 9.00 am (AWST) / 12.00 pm (AEST) today.

The presentation materials are attached for the information of investors and can also be accessed via the "Announcements" page of the Company's website https://nanoveu.com/.

Key highlights to be discussed:

- Tape-out of New Integrated Circuit on TSMC's 16nm FinFET;
- Recently announced collaborations with Arrow Electronics (NASDAQ: ARW) and Semtech (NASDAQ: SMTC);
- ECS-DoT Drone Program; and
- Sales network establishment for the ECS-DoT 22nm and upcoming 16nm Edge-AI solutions.

If you would like to join, please click on the link below to register:

Date: Friday, 19 December 2025

Time: 9.00 am Australian Western Standard Time (AWST) / 12.00 noon Australian Eastern Standard Time (AEST)

Invite link: https://zoom.us/webinar/register/WN_gDdjC8h3SJa50TY_o3Xx3A

This announcement has been authorised for release by the Board of Directors.

-ENDS-

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About Nanoveu Limited

Further details on the Company can be found at https://nanoveu.com/.

EMASS is a pioneering technology company specialising in the design and development of advanced systems-on-chip (SoC) solutions. These SoCs enable ultra-low-power, AI-driven processing for smart devices, IoT applications, and 3D content transformation. With its industry-leading technology, EMASS will enhance Nanoveu's portfolio, empowering a wide range of industries with efficient, scalable AI capabilities, further positioning Nanoveu as a key player in the rapidly growing 3D content, AI and edge computing markets.

EyeFly3D™ is a comprehensive platform solution for delivering glasses-free 3D experiences across a range of devices and industries. At its core, EyeFly3D™ combines advanced screen technology, sophisticated software for content processing, and now, with the integration of EMASS's ultra-low-power SoC, powerful hardware.

Nanoshield™ is a self-disinfecting film that uses a patented polymer of embedded Cuprous nanoparticles to provide antiviral and antimicrobial protection for a range of applications, from mobile covers to industrial surfaces. Applications include *Nanoshield™ Marine*, which prevents the growth of aquatic organisms on submerged surfaces like ship hulls, and *Nanoshield™ Solar*, designed to prevent surface debris on solar panels, thereby maintaining optimal power output.

Forward Looking Statements This announcement contains 'forward-looking information' that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to the Company's business strategy, plans, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations and related expenses. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'ambition', 'anticipate', 'project', 'target', 'potential', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'mission', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this announcement are cautioned that such statements are only predictions, and that the Company's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance, or achievements to be materially different from those expressed or implied by such forward looking information.

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CEMASS

a nanoveu business

Investor Webinar
December 19, 2025

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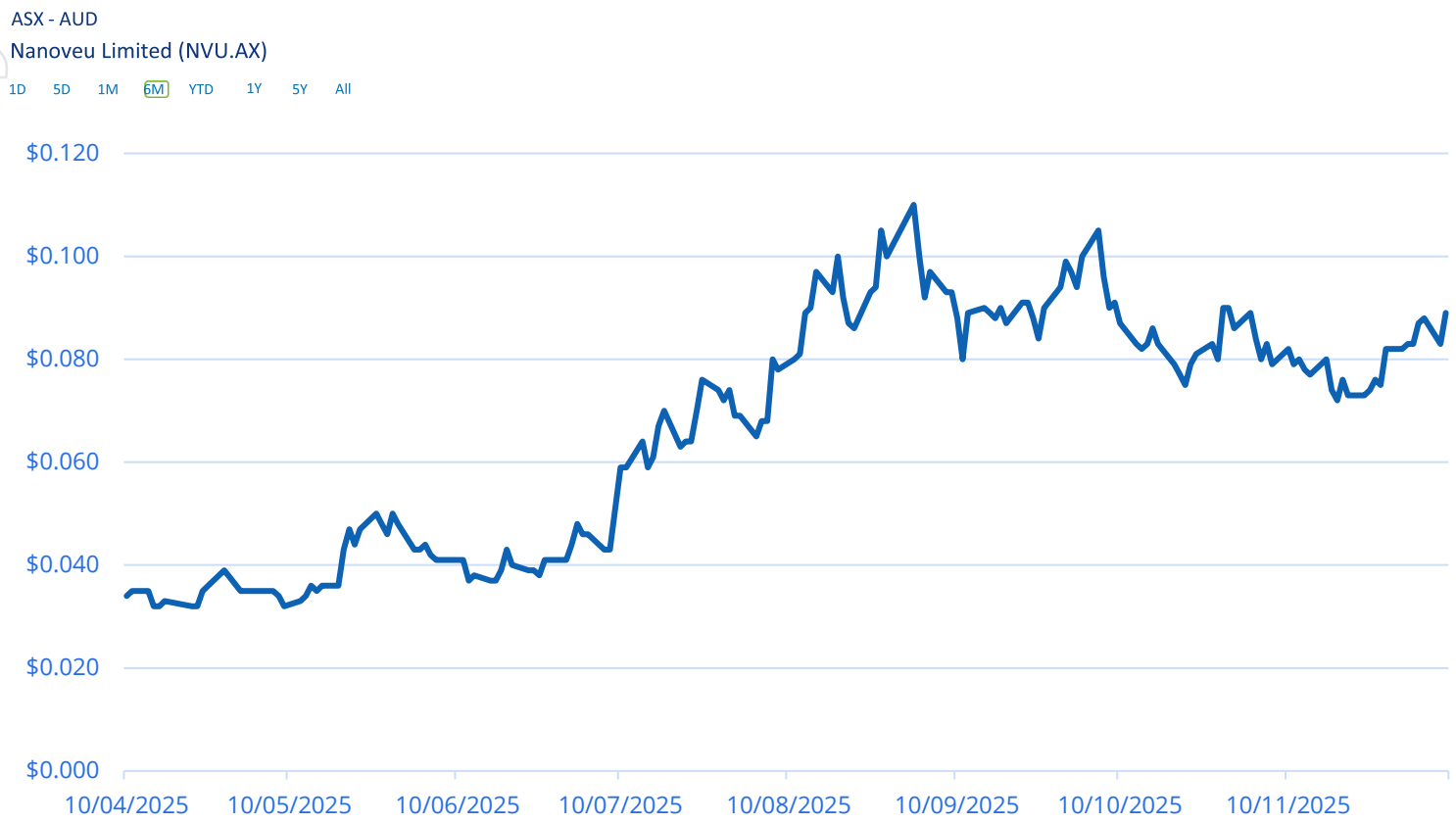
Capital Structure

Nanoveu Share Price



Capital Structure

ASX Code	NVU
OTCQB Code	NNVUF
Shares on Issue	981.1m
Options on Issue	228.5m
Perf Rights on Issue	138.0m[1]
Average Volume	13.6m
Market Cap[2]	$87.3m
Previous Close[2]	$0.089

1. Excludes 5m performance rights to be offered to director subject to shareholder approvals.
2. As at close 9 Dec '25.

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Board and Management

Dr. David Pevcic

Executive Chairman

- Experienced professional and investor in the resources and technology sector
- Non-Executive Chairman at Battery Age Minerals Ltd (ASX: BM8)
- Non-Executive Chairman at Infini Resources Ltd (ASX: I88)
- Holds a BSc, MBBS, from the University of Western Australia

Dr. Mohamed Sabry

Non-Executive Director

- CTO, Founder of EMASS
- Associate Professor, NTU Singapore
- Postdoc at Stanford University
- Recipient of Nanyang Education Award
- Ph.D. from EPFL

Alfred Chong

Group CEO and Director

- Founder of Nanoveu, has 30+ years of experience in scaling companies and trade sales
- Former CEO of Atex Media Command (APAC), THISS Technologies, 121View
- Former CMO at 3D International

Steve Apedaile

Non-Executive Director

- 30 years of experience in accounting
- Worked at KPMG and Horwath Hong Kong
- Fellow of the ICAEW and Member of the AICD.
- Executive Chairman of Sprintex (ASX:SIX)

Raymond Chen

CFO and Director

- Held roles at Iluka Resources, NRW Holdings, Equinox Resources and KPMG
- MBA, University of Cambridge (Judge Business School)
- 15+ years' experience across resources and corporate finance

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Leadership Team

Mark Goranson

CEO of Semiconductor Technology

- VP of Global Ops, TE Connectivity
- SVP of Fab Ops, ON Semi
- VP of Fab Ops, Freescale
- Early Member of Intel

Dr. Mohamed Sabry

CTO, Founder of EMASS

- Associate Professor, NTU Singapore
- Postdoc, Stanford
- Recipient of Nanyang Education Award
- Ph.D. from EPFL

Scott Smyser

VP, Sales & Marketing

- EVP Marketing & BD, Si-Ware Systems
- VP & GM, VTI Technologies (Murata)
- SVP Sales, Atomica
- SVP Strategic Sales, Rockley Photonics

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EMASS Introduction

Fabless Semiconductor Innovator in Edge AI Processing

- Ultra-low-power Edge AI SoCs for always-on intelligence in battery constrained devices
- Flagship ECS-DoT chip up to 20x more energy efficient than peers
- Usable across drones, wearables, IoT devices and other Edge AI applications

Established Global Operations

- Global operations and R&D centres in USA, Singapore and Egypt
- 100% of EMASS acquired by Nanoveu Limited (ASX:NVU)

Expert Team Across Disciplines

- Deep expertise in AI/ML, neural network acceleration, semiconductor design, sensor fusion, and embedded systems
- Experienced management with semiconductor and AI industry backgrounds

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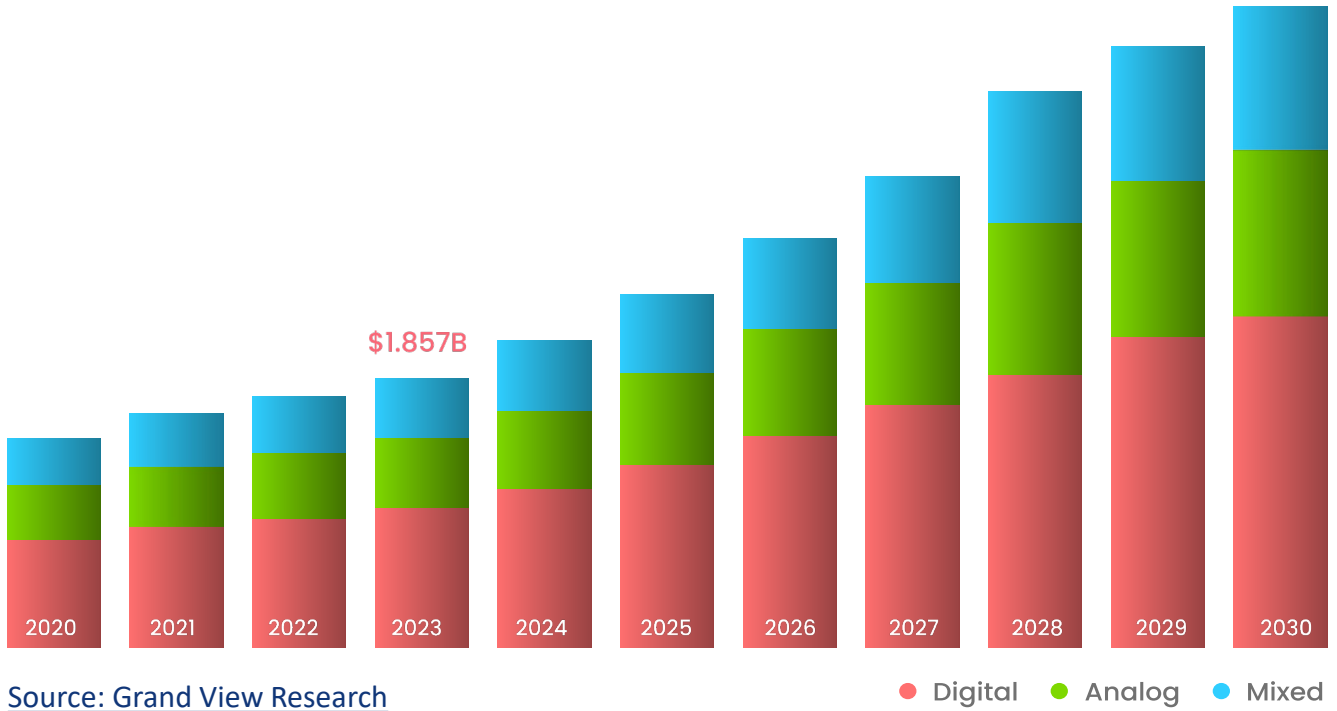
Semiconductor & SoC Market Opportunity

System On Chip Market Size

By Type 2020-2030 (USD Billion)



Source: Grand View Research

SoC Market Growth:

Applications demanding continuous sensing, context awareness, and real-time decision-making

Set to hit

$325.7B by 2030

8.5% Global Market CAGR

Driven by AI, 5G, and smart devices.

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Revolutionising Edge AI

Edge AI Opportunities

- Robust AI models require increased computation power and battery
- Current chips are not designed for efficient edge AI use cases
- Devices need versatile chips with multi-sensor use-cases

EMASS Solution

- Executes AI inference directly at the sensor under 1 mW power
- Provides up to 20x energy efficiency vs leading chips
- Enables smaller, lower-cost, and reconfigurable designs across drones, IoT, and wearables

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Introducing the ECS-DoT

Superior Performance, Low Power, Small Form Factor

Up to 12
TOPs/Watt

Compressed
AI Model < 2-bits

4
MBytes

22nm technology
with 7mm²die area

30 GOPs
@ 50 MHz, 2mW

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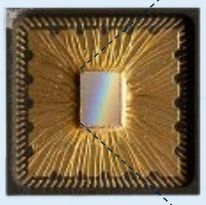
Redefining What's Possible in Ultra-Low-Power Edge AI

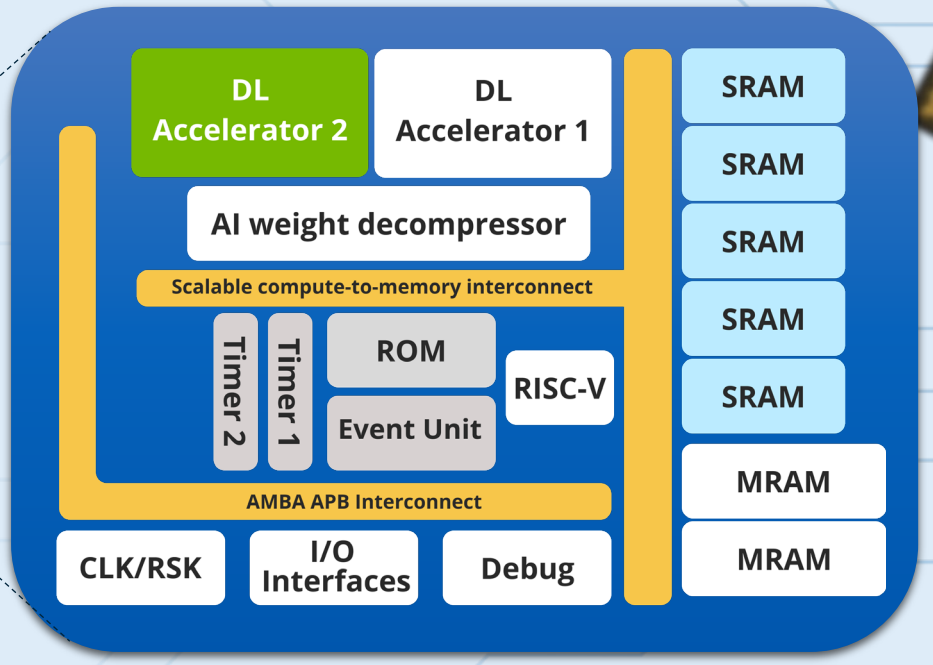
Fully Programmable System on Chip (SoC)

- Processor
- AI engines
- IPs for compressed AI

Local decision-making at the Edge

- Always-on AI Inference
- Sensor fusion
- Support CNNs, ML, Data Processing, etc.





Key Architecture Features

- <1 to 5 mW power consumption (Avg 2mW always on)
- No External DRAM needed (very fast on-chip SRAM and nonvolatile MRAM/RRAM)
- SW and HW support for highly compressed AI workloads

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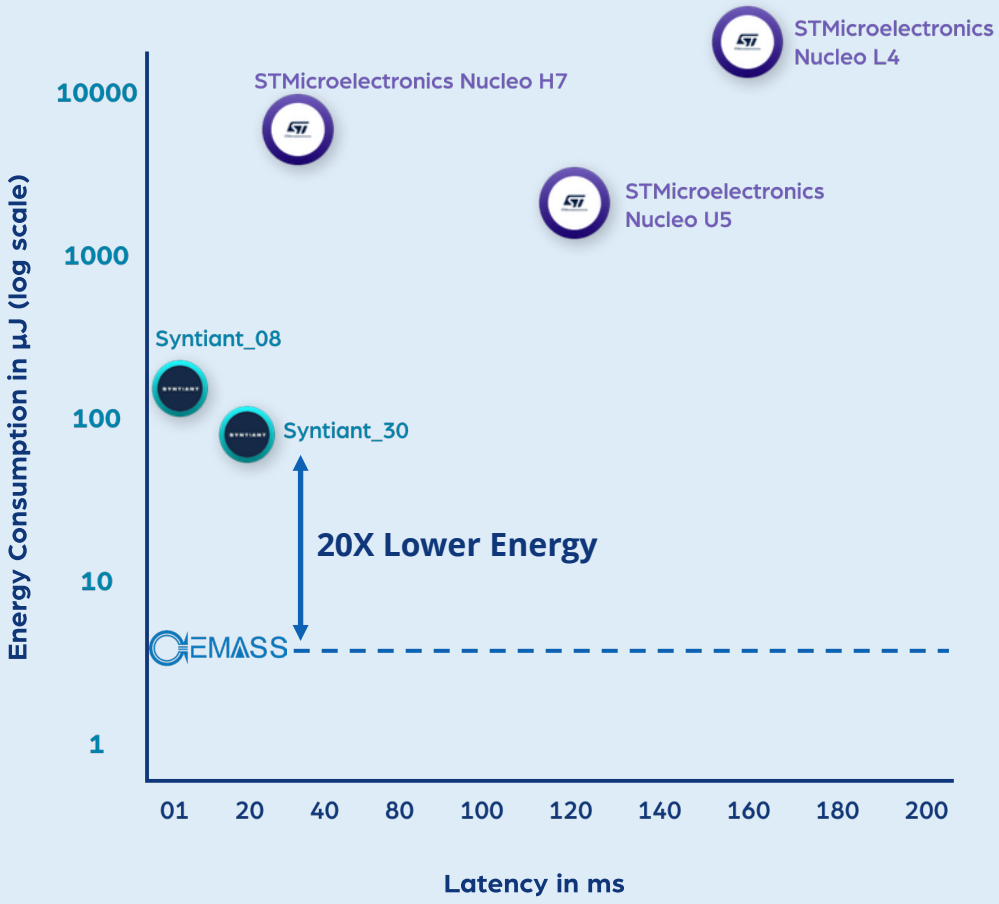
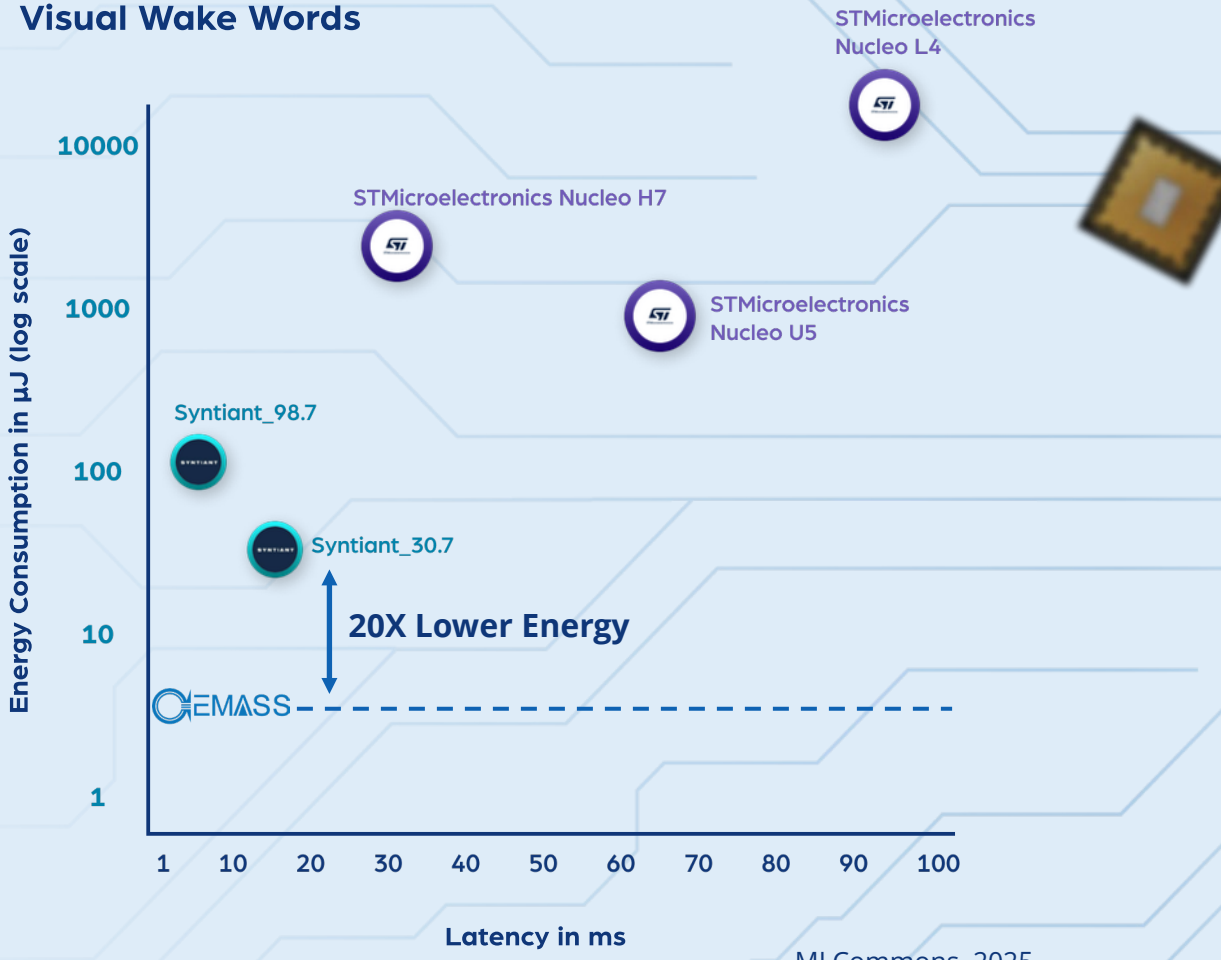
Exceptional AI Computation

20X Lower Energy

Image Classification



Visual Wake Words



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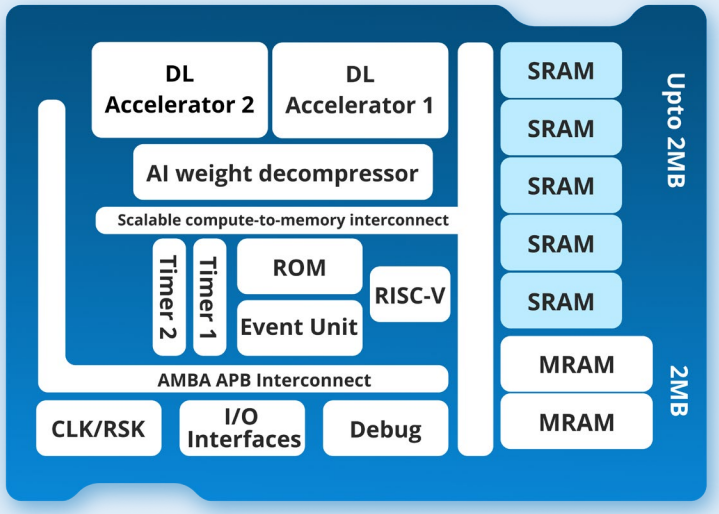
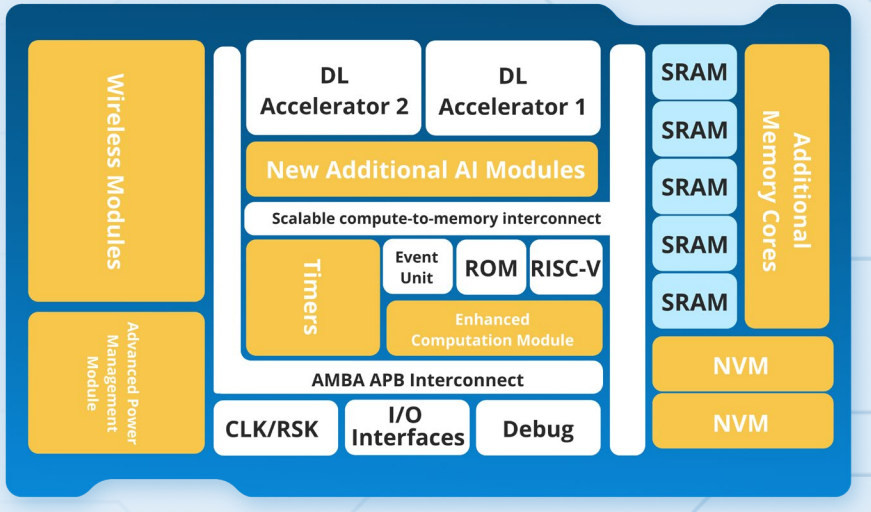
Next Generation ECS-DoT 16nm

Strengthening Leadership in Ultra-Low-Power Edge AI

22nm Architecture



16nm Architecture



Enhancement Highlights

- Fully integrated Low Energy Bluetooth (BLE)
- New Adaptive Power Management
- Dedicated AI module for object detection
- Expanded on-chip memory
- Integrated Floating-Point Unit (FPU)

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Next Generation ECS-DoT 16nm

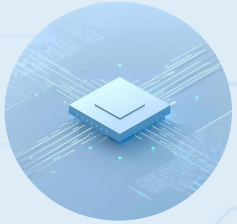
Enhancement Benefits

Dedicated AI Acceleration Module for Object Detection

- YOLO (You Only Look Once)-Nano-class architectures;
- MobileNet-SSD style detection heads; and
- FOMO (Faster Objects, More Objects)-style event and object detectors

New Adaptive Fine-Grained Power-Management Architecture

- Dynamic clock gating for workload-aware optimization
- Autonomous low-power states
- Microsecond-level sleep/wake



Integrated Floating-Point Unit (FPU)

- Accelerate DSP
- Enable mixed-precision AI workflows
- Improved developer experience

Integrated Bluetooth Low Energy Subsystem (Analog + RF)

- Eliminates external wireless ICs
- Reduces board area, BOM, and design complexity

Expanded On-chip Memory

- Support larger/complex neural networks
- Reduce off-chip memory

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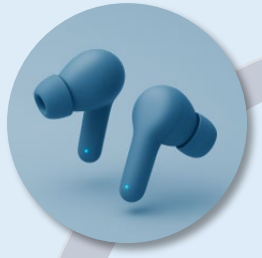
Target Edge AI Sectors

Hearables

$USD 138.5B by 2029

Source: Marketsandmarkets



Wearables

$USD 368.4B by 2035

Source: Fact.MR

AI Cameras

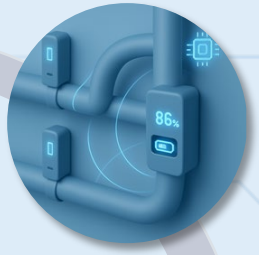
$USD 22.1B by 2028

Source: Marketsandmarkets

IoT Sensory

$USD 168.69B by 2030

Source: Mordor Intelligence



AR Glasses

$USD 8.26B by 2030

Source: Grand View Reasearch

Drones

$USD 223.66B by 2034

Source: Fact.MR

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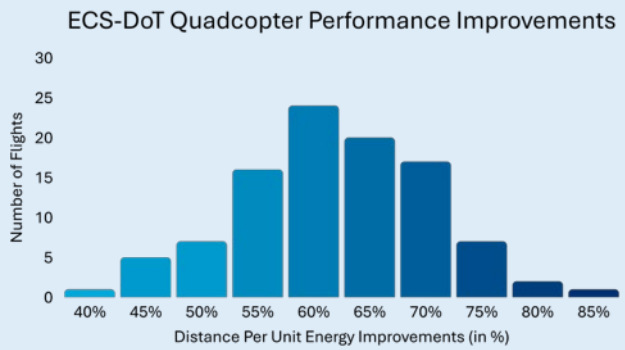
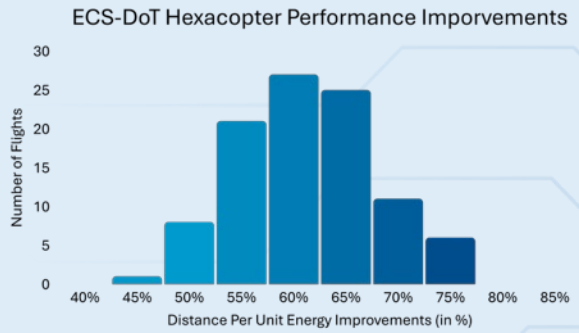
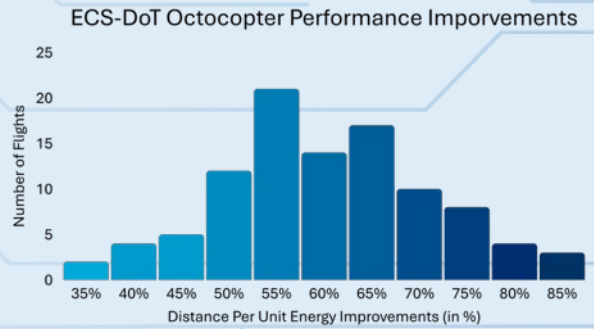
ECS-DoT Achieves Major Drone Performance Gains

Drone Type	Quadcopter	Hexacopter	Octocopter
Graph			
Use-cases	• Consumer • Enterprise	• Agriculture • Logistics • Terrain Mapping	• Industrial inspection • Defense • Professional
Performance Gains	Achieved up **to 80% improvement** in mission endurance, with a **60% average** extended flight time over baseline	Delivered up to **75% improvement** in flight endurance	Delivered consistent flight **endurance up to 85% with an average 57%** improvement

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Arrow Electronics Collaboration

Arrow Electronics (NYSE: ARW)

- Global technology distributor and engineering partner
- 2024 global sales of US$28 billion

Collaboration with EMASS

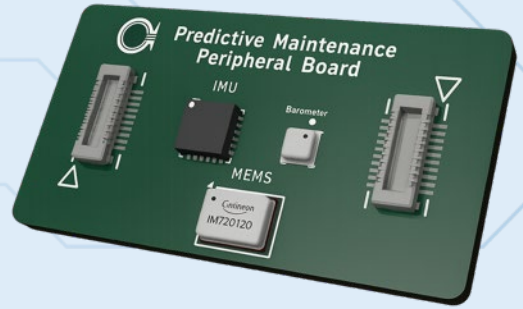
- Enhanced SDKs, developer tools, reference designs

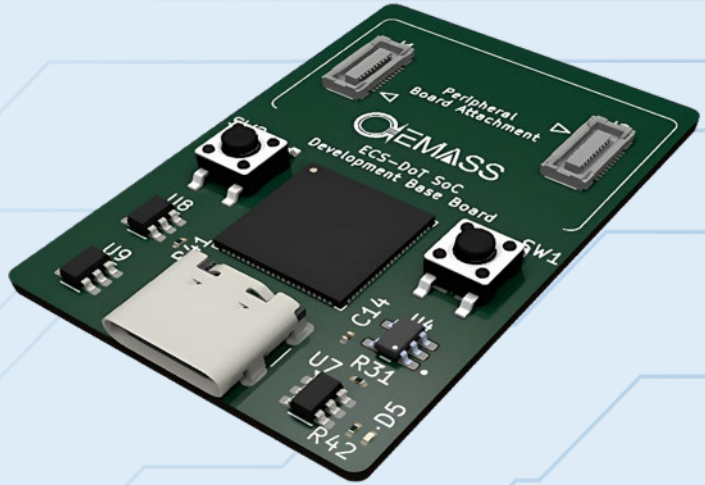
Predictive maintenance first reference design

- Cold asset tracking next design

Comarketing to customers

- Expand customer reach and engagement





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Semtech Collaboration

Semtech Corporation (Nasdaq: SMTC)

- Global semiconductor provider
- 2024 global sales of US$800 million plus

Collaboration with EMASS

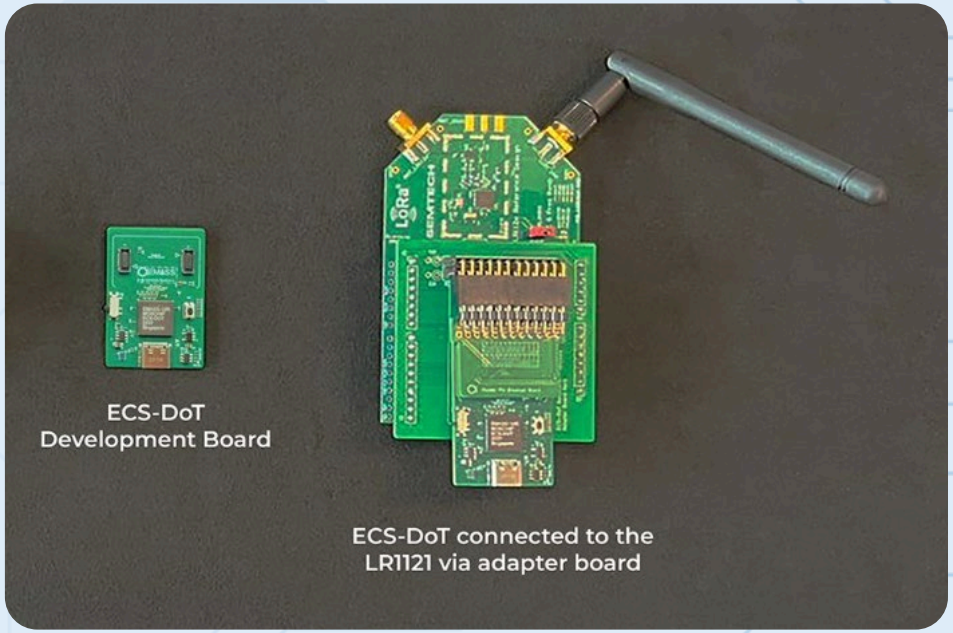
- Combine Semtech's LoRaWAN® wireless transceiver with ECS-DoT

Reference designs

- Predictive maintenance
- Security detection

Comarketing to customers

- Expand customer reach and engagement



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Scaling Commercial Operations

USA

Continued Customer Engagement

- Added Field Application Engineers
- Continued growth in applications and engagement

EU

Setting up EU Operations

- New sales director added
- Signing a distributor

Asia

Application-Led Engagement

- Signing a distributor

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Continuing Commercial Momentum

Customer & Partner Engagements

OEM engagements – eval boards shipped

- Wearables – AR glasses, hearables
- Dash cam
- Predictive maintenance

Partner collaborations – reference designs

- Inertial sensors
- Image sensors
- Spectral sensors

Custom SoC – long-term customers

- Tier 1 wearable OEM
- Top 5 sensor provider

What the Market is Responding To

Ultra-low power AI inference

- < 10 ms vs. 150-300 ms for competitors
- Up to 20X lower energy consumption vs. competitors

AI Model Portability

- Supports a wide range of AI Models
- Fast and easy development cycle
- Interoperability

Multi Sensor Integration

- Seamless integration with a variety of sensor types
- Real-time fusion of audio, motion and environmental data

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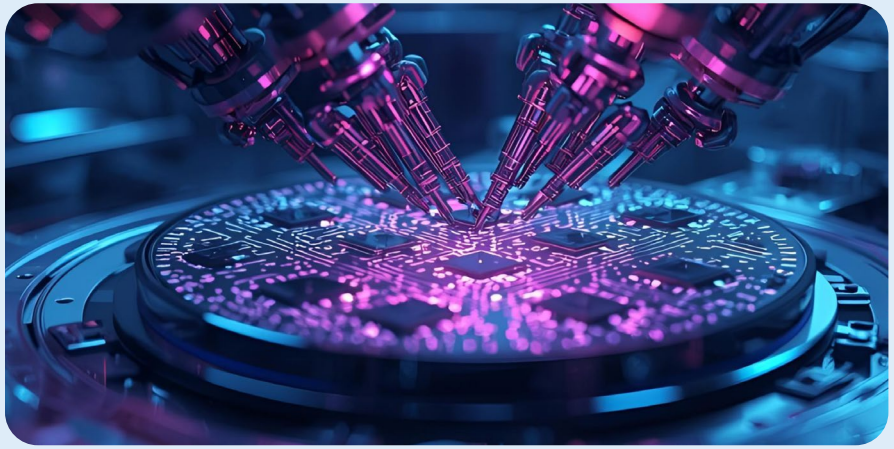
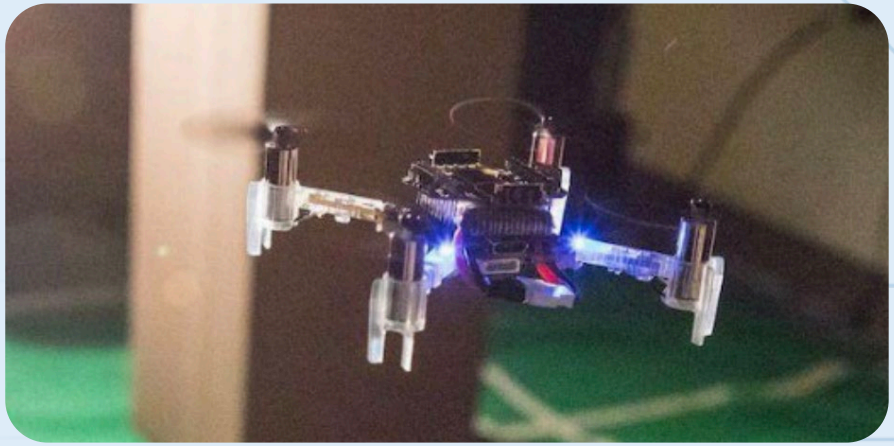
Upcoming Technical Catalysts



ECS-DoT 16nm tape-out

- Strengthening leadership in ultra-low-power Edge AI
- Integration of key chip enhancements
- Designed to further reduce power consumption while supporting larger and more complex AI models



Live-drone trial results

- Validate performance gains from simulations
- Assess power consumption, latency, and endurance in live flight conditions

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Upcoming Commercial Catalysts

CES 2026

- Multiple demos with ECS-DoT
  - Predictive maintenance
  - Security detection
  - Wrist-worn wearable
  - Cold asset tracking
- Demo combining ECS-DoT with Semtech LoRaWAN®

More partner engagements

- Reference designs with ECS-DoT
- Comarketing
- Easier customer adoption

Targeting Sales of ECS-DoT in 2026

- OEMs with eval boards
- Design-in process started
- More customer demand

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Thank You

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