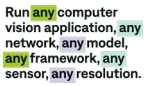
SiMa.ai

Drones

SiMa.ai is a machine learning (ML) company delivering the industry's first software-centric purpose-built Machine Learning System on a Chip (MLSoC) platform. With push-button performance, we enable effortless ML deployment and scaling at the embedded edge by allowing customers to address any computer vision problem while achieving 10x better performance at the lowest power. SiMa.ai is a software company that is building silicon and is shipping both software and hardware to customers. The MLSoC features low operating power and high ML processing capacity, making it ideal as a standalone edge-based system controller or to add a machine learning offload accelerator for processors, ASICs and other devices.

VALUE PROPOSITION

SiMa.ai's value proposition consists of 3 foundational pillars: Any, 10x and Pushbutton. Addressing one pillar would be a viable company. However, SiMa.ai solves all 3 which positions the company to significantly accelerate and scale ML adoption for the embedded edge market.



Any

Software can support any computer vision application using machine learning for the embedded edge market.

10x

Best-in-class performance per watt using innovative patented software and hardware architecture.

Pushbutton

Software automatically partitions and optimizes data movement and hardware features to get results in minutes.

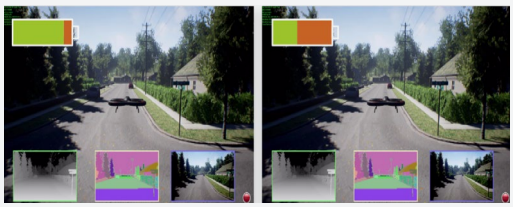
KEY BENEFITS & METRICS

- World-class performance per watt with ultra-low latency for embedded edge ML applications
- Accelerates deployment velocity via integration, legacy network support and future proofing
- Pushbutton software enables computer vision pipelines to quickly be up and running

- **ML Performance:** 50 TOPS
- **MLSoC Power:** 10W
- **ResNet-50 Performance >** 300 FPS/W
- **Running >** 120 ML networks today

APPLICATION BENEFITS

- Enables drones to fly longer distances with smaller battery sizes
- Highly integrated MLSoC enables reduced component count and lower TCO
- Addresses size, weight and power-constrained drone application needs



SiMa.ai MLSoC	Competition
445 FPS/W	38 FPS/W

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