



SiMa^{ai}



MISTRAL

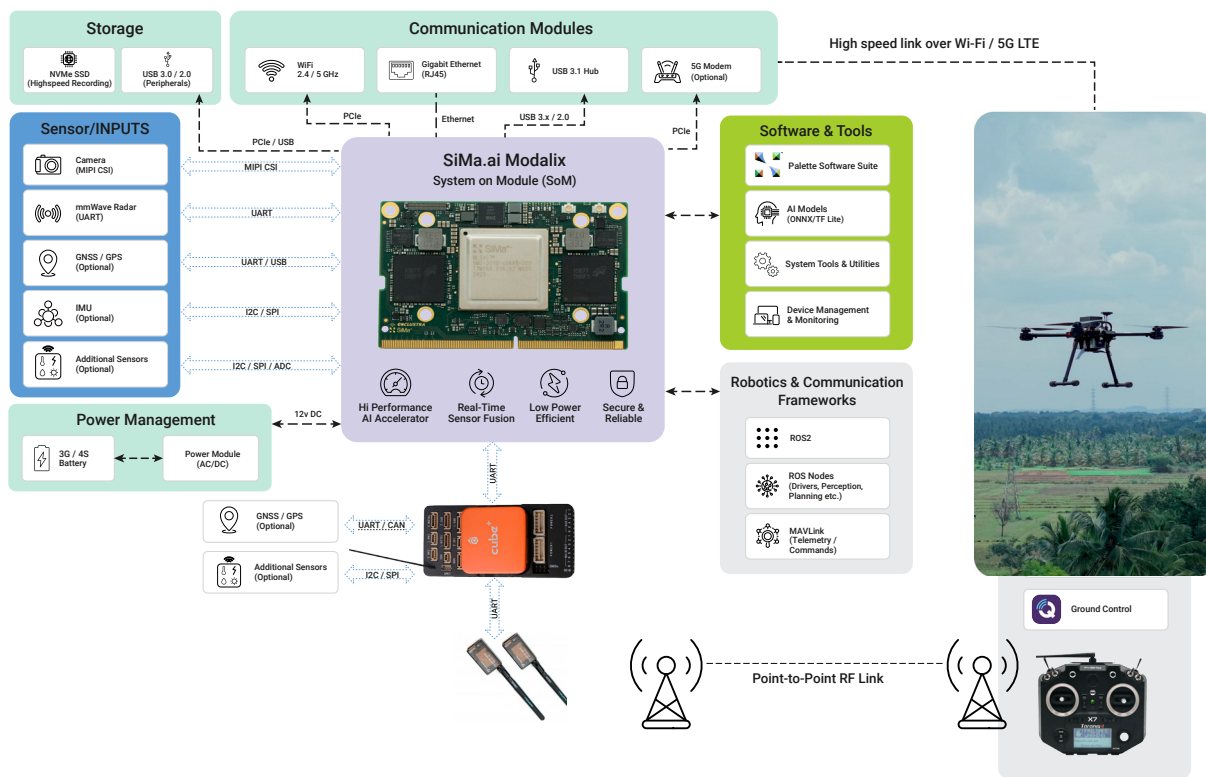
Engineering the Intelligent Edge

Drone Reference Design - with Sensor Fusion

SiMa.ai and Mistral Value Proposition

- Complete reference design with sensor fusion accelerates time-to-market.
- Sub-10W multimodal AI inference enables advanced perception, reasoning, and decision-making.
- Scalable architecture supports rapid prototyping through full production deployment.
- GPS-denied navigation enables autonomous operation in challenging environments.
- Orange Cube flight controller and ROS 2 integration simplify ecosystem integration.
- Agentic software development accelerates design velocity and system optimization.

Hardware Architecture



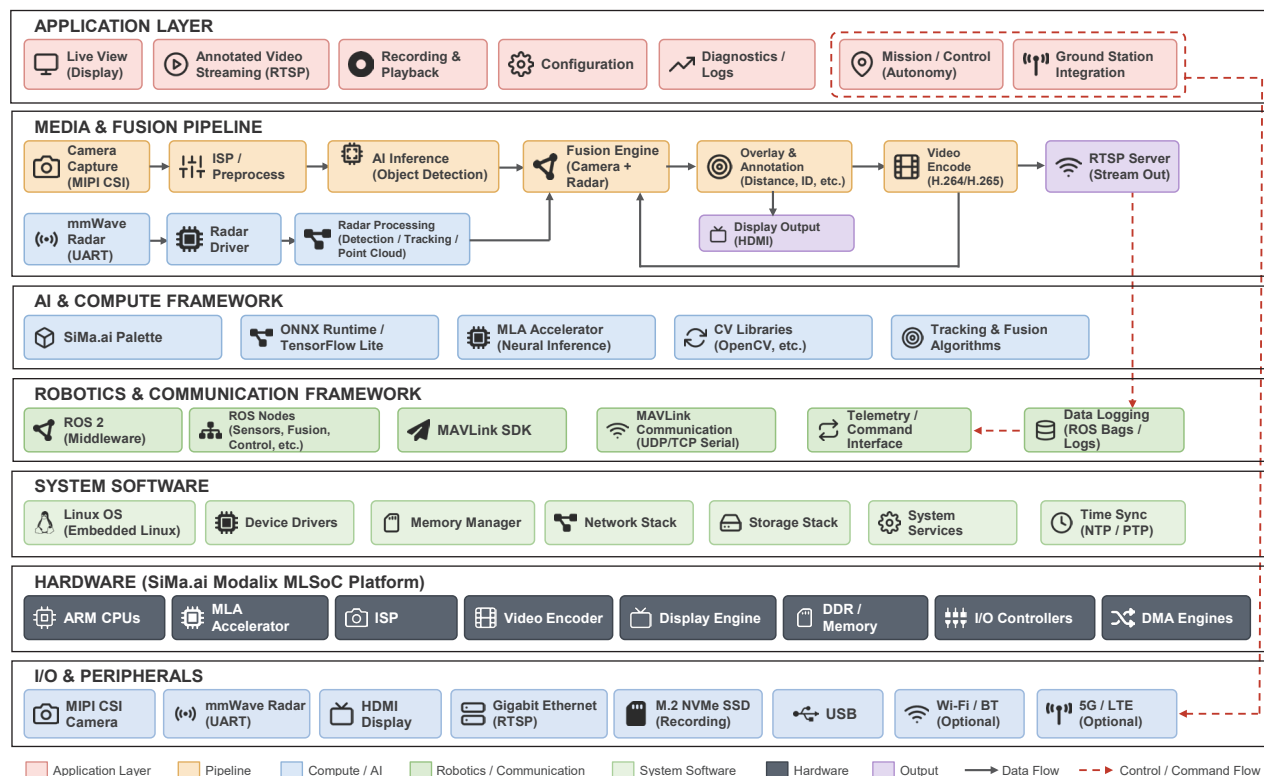
Fast Deployment with an Agentic Development Environment

Co-developed with Mistral, SiMa.ai's Drone Reference Design provides a modular platform that accelerates development. The power-efficient Modalix System on Module (SoM) supports extended flight time, autonomous navigation, and perception, while a security-hardened OS and an industrial operating-temperature range of -40°C to 85°C enable operation in demanding environments. The full-stack software package includes a BSP, Linux kernel and drivers, and libraries for AI/ML, computer vision, video, sensor control, and sensor fusion. Support for depth mapping, SLAM, perception, navigation, ROS 2, and Nav2 provides the foundation for autonomous applications. Palette Neat accelerates development and optimization using Python, C++, or GStreamer.

Full-Stack Drone Reference Design

Autonomous, Multimodal, Multi-Sensor AI Deployment for Drones

Software Architecture



Hardware

Our Silicon



Modalix

Our Boards



SoM



SoM DevKit



PCIe HHHL

Software



Hugging Face huggingface.co/simaai

Model Zoo sima.ai/model-browser/

About SiMa.ai

SiMa.ai is a leader in Physical AI, delivering a purpose-built, software-centric platform that brings best-in-class performance, power efficiency, and ease of use to Physical AI applications. The company is focused on scaling Physical AI across robotics, automotive, drones, industrial automation, aerospace and defense, smart vision, and healthcare. Learn more at www.sima.ai.

About Mistral Solutions

Mistral specializes in advanced product design and development services, including build-to-specification (BTS), build-to-print (BTP), and comprehensive system engineering for a wide range of applications. Expertise spans two primary business verticals: Aerospace and Defense, and Deep-Tech Applications, catering to industries such as Industrial, Automotive, Healthcare, Consumer Electronics, Semiconductor, and Hyperscalers. Learn more at www.mistralsolutions.com.

