

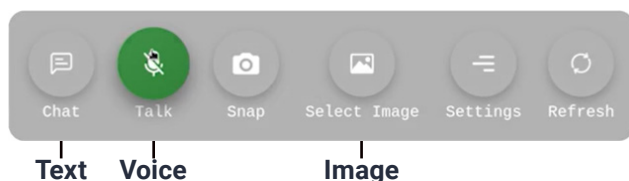


## Multi-Modality — For Conversational AI

### SiMa Value Proposition

- Enables natural, real-time conversation with your equipment to simplify set-up, use, and repair.
- Accommodates multiple interaction modalities — text, voice, and images to enhance ease of use and accelerate decision making.
- Provides actionable insight exactly when it's needed.
- Supports Retrieval Augmented Generation (RAG) to expand model's domain expertise without retraining.
- Brings the power of generative AI anywhere—even off-grid—in under 10W.

#### Demo Controls



*"How do I clean the variator drive belt in a New Holland combine harvester?"*



### Natural interaction with on-device AI

### Modalix brings Large Multi-Modal Models (LMMs) to life for Physical AI

Across factories, vehicles, and field equipment, systems are evolving from command-based control to natural interaction. SiMa.ai Modalix enables that shift — running large multi-modal models (LMMs), LLMs, and VLMs entirely on-device for real-time intelligence without cloud latency, cost, or privacy concerns.

- Transforms equipment into an intelligent assistant that understands intent, not just inputs.
- Enables natural human-machine interaction through text, voice, and vision.
- Runs fully on-device — no cloud or host required — cutting cost, latency, and privacy risk.
- Accelerates decision-making and innovation, driving measurable ROI from on-device intelligence.

# Conversational AI, Multi-Modality Demo

Powered by SiMa.ai Modalix Running LLaVA & TinyLLaVA at Under 10W

## Technical Details

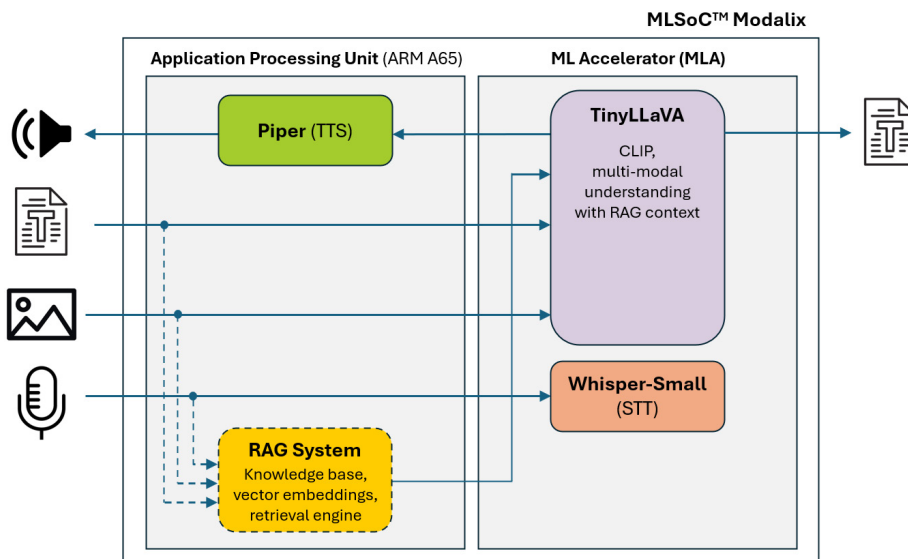
Multi-modal AI – LMMs, LLMs, and VLMs work together to understand text, voice, and images.

Runs CLIP, Whisper, Piper TTS, and LLaVA or TinyLLaVA (among other models) fully on-device – no cloud or host needed.

Private by design since no need to access cloud.

Real-Time Response – delivers up to 13 TPS and 0.5 s TTFT for human-like interaction.

Under 10 W for efficient & thermally stable operation.



Convert Hugging Face models into optimized, binaries with **SiMa's LLiMa framework**, integrated into the **Palette SDK**.

## Hardware

### Our Silicon



Modalix

### Our Boards



SoM



SoM Dev



PCIe HHHL

## Software



Hugging Face [huggingface.co/simaai](https://huggingface.co/simaai)

Model Zoo [sima.ai/model-browser/](https://sima.ai/model-browser/)



## About SiMa

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. Focused on scaling Physical AI across robotics, automotive, industrial automation, aerospace & defense, smart vision, and healthcare, SiMa.ai is led by seasoned technologists and backed by top-tier investors. Headquartered in San Jose, California.

Learn more at [www.sima.ai](https://www.sima.ai).

