NUVOTON
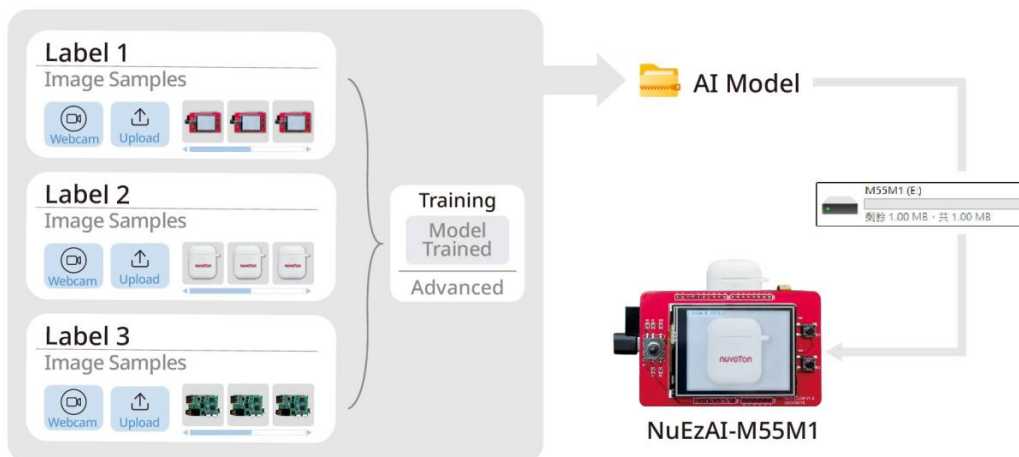
NuEzAI-M55M1

NuEzAI-M55M1 is a development board equipped with NuMicro® M55M1 series microcontroller, offering powerful digital signal processing and on-device machine learning inference capabilities. Powered by Arm® Cortex®-M55 core, M55M1 microcontroller runs at a frequency of up to 220 MHz. Additionally, integrates Arm® Ethos™-U55 Neural Processing Unit (NPU) as a coprocessor, significantly enhancing neural network computation performance. The M55M1 series MCU features up to 1.5 MB of SRAM and 2 MB of flash memory, providing ample storage for applications.

The NuEzAI-M55M1 development board offers a wide range of hardware expansion options, including CCAP, DMIC, G-Sensor, HSUSB Type-C, HyperRAM, Nu-Link2-Me, MicroSD, and an Arduino-compatible expansion interface, allowing users to customize functionality as needed.

To lower the barrier for AI development, the NuEzAI-M55M1 board does not require users to have AI expertise. Even those without machine learning experience can easily get started. Its no-code environment allows users to update the firmware through simple drag-and-drop operations, eliminating the need for code writing and making the development process more intuitive and efficient.

Furthermore, the NuEzAI-M55M1 board requires no driver installation and seamlessly integrates with the Google Teachable Machine platform, further simplifying the AI model deployment process. Google Teachable Machine is an intuitive, no-code, visual platform that enables users to easily train and export models. With NuEzAI-M55M1, users can quickly deploy AI models trained on Teachable Machine to their hardware devices. The entire process takes just 3 minutes, requiring no additional technical background. This makes it ideal for projects requiring rapid testing and iterative development, offering a highly valuable rapid development solution. NuEzAI-M55M1's AI development tools integrate the full process from model training to deployment, allowing users to complete all tasks on a single platform without switching between different tools, further improving efficiency and workflow continuity. These features make NuEzAI-M55M1 not only outstanding in computational performance and security but also offer developers a seamless AI development experience, making it a top choice for various application domains.