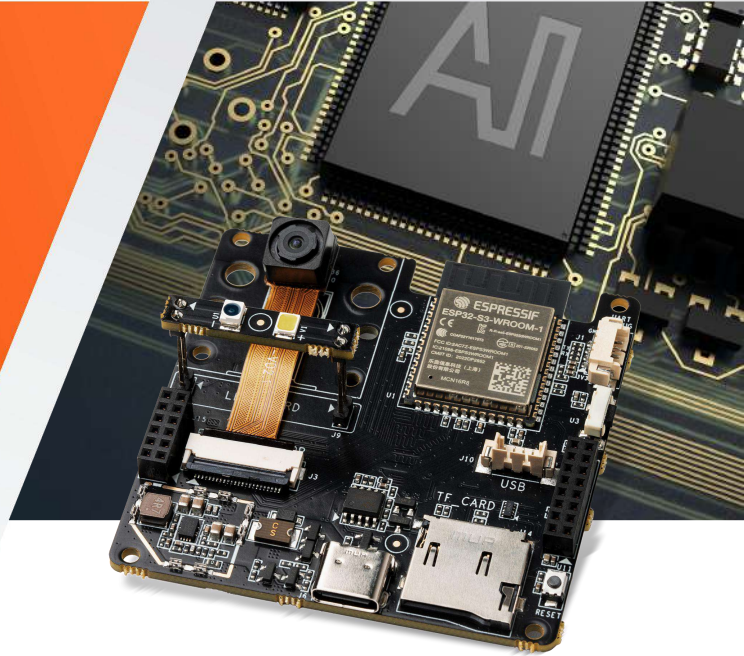


NeoEyes NE101

Dev Board

NE100-MB01

Based ESP32-S3



CamThink NE100-MB01 development board is designed to streamline prototyping, testing, and customization for vision AI applications. The NE100-MB01 is based on the ESP32-S3 MCU with outstanding performance on power consumption (less than 1W on standby mode). It supports multiple trigger mechanisms for image capture, which accelerates the prototyping process for developers to implement diverse vision AI applications.

Type-C port supports DC 5V power input.

UART, I2C, GPIO and SPI ports simplify integration.

Rich accessories including antenna, lenses, and communication modules for customization.

Compact size 60 x 60 x 25mm for constrained space design.

Development Board

Streamline Process



Simple and
Rapid Prototyping



Cost-effective
Development Effort



Full-scale Documentations and
Supports



Specifications

Model Name	NE100-MB01
Hardware	
MCU	ESP32-S3
Memory	8MB RAM
Flash	16MB
Network connection	
Wireless	Wi-Fi Halow/LTE Cat.1 module (Optional)
Bluetooth	Bluetooth v4.2 BR/EDR, BLE
Optical	
Camera module	OV5640 module (120° / 60° FOV and near/far focus options available)
Illuminating	1 x 3000K LED, 1 x Photodiode
Interfaces	
Expansion IO	Pinheader for UART, I2C, SPI, GPIO (16-Pin)
USB	x 1
Alarm	Alarm x 1
Power Supply	DC 4-6V by Wafer 2Pins or Type-C@5V
Storage	Micro-TF
Operation	
Operation Temperature	-20°C - 60°C
Storage Temperature	-40°C - 85°C
Dimension and Installation	
Dimension	60 x 60 x 25mm (PCB only)
Certifications	CE/FCC

