

# An Idea Platform for Edge Gateway and HMI Applications

## NuMicro® MA35 Series Microprocessor



### High-Performance 64-Bit Microprocessor Unit, With the Advanced Security, Rich and High-Speed Peripherals



#### Multicores, High-Performance & Real-Time

- Dual 64-Bit Arm® Cortex®-A35 High-Performance Cores Up to 800 MHz
- One Cortex-M4 Real-Time Processor Up to 180 MHz



#### Rich Peripherals for Industrial Devices

- CAN FD, UART, QSPI, I²C, I²S
- EADC, ECAP, QEI, EPWM



#### Easy System Design for Industrial Applications

- MCP 128/256/512 MB DDR in LQFP and BGA Package With The Advantages
  - Lower EMI Interference
  - Reducing the PCB Layers and Area
  - Saving BOM Cost
- Supports External DDR Size Up to 2 GB
- Supports Discrete Power Supply and PMIC Solutions
- Operating Junction Temperature (Tj): -40°C to +105°C



#### Multiple High-Speed Connectivity for Edge Gateway

- Dual Gigabit Ethernet
- USB2.0 HS Host and Device
- USB HS Host/Device Dual Role
- SDIO3.0



#### Advanced Security Features

- Trusted Secure Island, an Isolated Secure Hardware Unit
- Support Trust-Zone and Secure Boot
- Built-In Cryptographic Accelerators, Key Store, OTP Memory, and Temper Pins

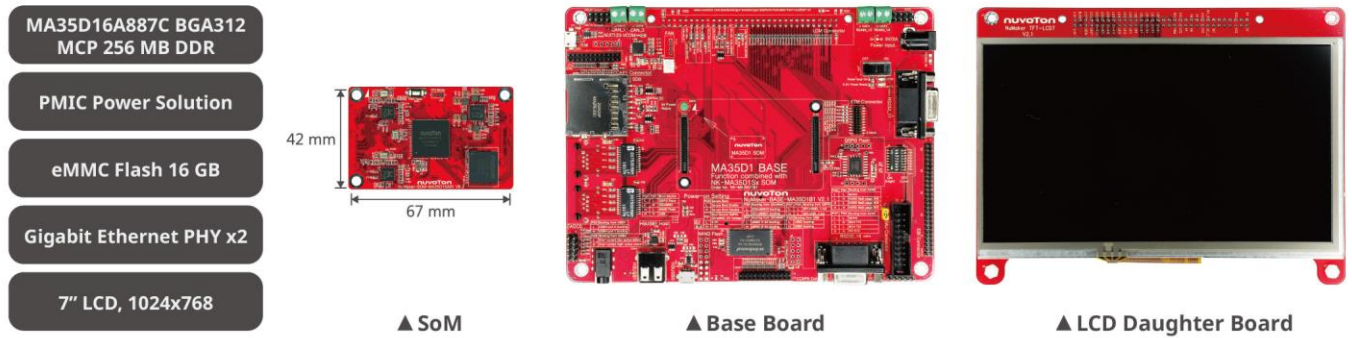


#### For Better User Experience in Graphics HMI

- Support 1080P LCD Display @60 FPS
- 2D Graphics Engine
- JPEG and H.264 Decoder
- Supports 4/5-Wire Resistive Touch

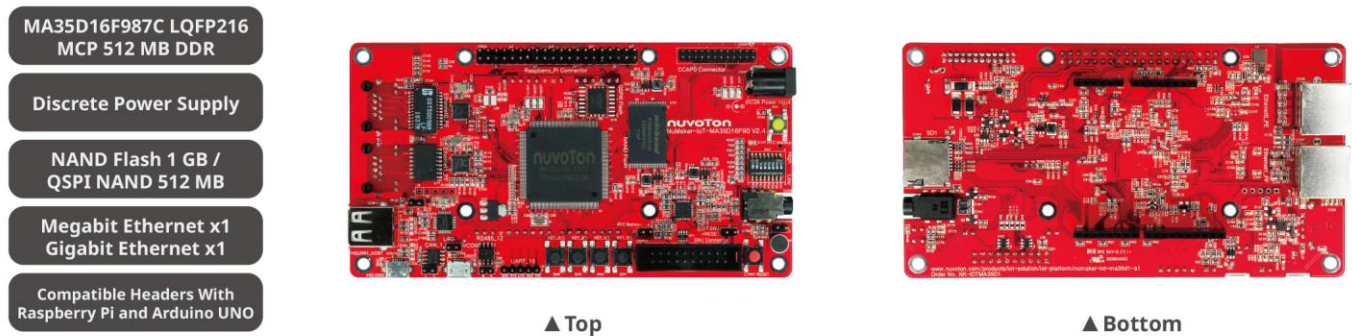
## ► NuMaker-HMI-MA35D1-S1 EVB for HMI

The NuMaker-HMI-MA35D1-S1 Evaluation Board (EVB) Provides the Most Features of NuMicro® MA35D1



## ► NuMaker-IoT-MA35D1-A1 EVB for Edge Gateway

The NuMaker-IoT-MA35D1-A1 Evaluation Board (EVB) Provides the Ethernet and Connectivity Features of NuMicro® MA35D1



## ► Ecosystem

