**FOR IMMEDIATE RELEASE**

**EMAC Inc.'s New System-on-Module: The SoM-35D1F System-on-Module, Made in the USA**

*CARBONDALE, IL – June 18, 2025* – EMAC Inc., a recognized leader in embedded ARM System-on-Module (SoM) manufacturing and turnkey embedded solutions, today announced its latest innovation: the SoM-35D1F System on Module. This compact and versatile SoM is powered by the high-performance Nuvoton NuMicro**®** MA35D1 Dual ARM Cortex-A35 processor, delivering exceptional processing power and a rich set of features for a wide range of industrial and embedded applications.

The SoM-35D1F leverages the robust capabilities of the Nuvoton NuMicro**®** MA35D1, which features dual 800MHz Cortex-A35 cores and an independent 180MHz Cortex-M4 processor core. This powerful combination enables the processing of complex applications alongside real-time control, making it ideal for demanding tasks.

"At EMAC, we are committed to providing our customers with cutting-edge embedded solutions that accelerate their time-to-market," said Jeffrey Young of EMAC Inc. "The SoM-35D1F, built around the rugged Nuvoton NuMicro**®** MA35D1, offers a compelling blend of performance, features, and our signature reliability, empowering developers to create innovative products across various industries."

The EMAC SoM-35D1F boasts a comprehensive array of onboard peripherals and interfaces, all within a compact 200-pin SODIMM form factor for easy integration with EMAC's carrier board ecosystem. Key features include:

* **High-Performance Processing:** Nuvoton NuMicro**®** MA35D1 Dual ARM Cortex-A35 800MHz & 180MHz Cortex M4 Processor.
* **Ample Memory:** 4GB of eMMC flash (16GB optional), 16MB of NOR serial flash, and 512MB of DDR3L RAM.
* **Extensive Connectivity:** Gigabit Ethernet PHY, 4 serial ports (including RS-485 support), 2 USB 2.0 host ports, 1 USB 2.0 OTG port, dual CAN ports, and dual SDIO ports.
* **Rich I/O:** 4-Channel 12-bit ADC, 4-wire touchscreen interface, 24-bit LCD controller, 16x GPIO, 4x GP PWM channels, and more.
* **Enhanced Security:** Leveraging the Nuvoton NuMicro**®** MA35D1's Trusted Secure Island (TSI) with TrustZone, secure boot, tamper detection, cryptographic accelerators, and secure key storage.
* **Industrial Reliability:** Wide operating temperature range of -40 to 85°C for fanless operation.
* **Open-Source Software Support:** Facilitating rapid development and customization.

"Nuvoton is excited to partner with EMAC Inc. to bring the capabilities of the NuMicro**®** MA35D1 to a wider audience through their innovative System-on-Module solutions," said Russell Ramsay of Nuvoton Technology Corp. "EMAC's expertise in embedded systems and their commitment to quality make them an ideal partner to showcase the high performance and security features of our processor."

With over three decades of experience in the embedded systems market, EMAC Inc. provides comprehensive services, including custom manufacturing, building, testing, and programming embedded systems. The ISO 9001:2015 certified company is dedicated to delivering high-quality, reliable embedded solutions, and the new SoM-35D1F further strengthens their portfolio of leading-edge products.

The EMAC SoM-35D1F is ideal for applications in industrial automation, data acquisition, transportation, IoT gateways, and other embedded systems requiring robust performance, security, and a wide range of connectivity options.

***SOM-35D1F Availability:*** Now. Sold Worldwide.

***Datasheet***   
<https://ftp.emacinc.com/SoM/SoM-35D1F/DataSheets/SoM-35D1F_Datasheet.pdf>

***Website Link***: <https://shop.emacinc.com/product/som-35d1f/>

***Picture*:** <https://ftp.emacinc.com/SoM/SoM-35D1F/Misc/som-35d1f.png>

**About EMAC Inc.**

EMAC Inc. (Equipment Monitor And Control) specializes in the design, manufacture, integration, and distribution of embedded systems. Since 1985, EMAC, Inc. has been a trusted provider of off-the-shelf and turnkey embedded OEM products, including Single Board Computers (SBCs), System on Modules (SoMs) & Carrier Boards, Industrial Panel PCs (PPCs), Embedded Servers, and fully custom product solutions. EMAC is ISO 9001:2015 certified, demonstrating a commitment to quality in every aspect of its operations. For more information, please visit [www.emacinc.com](http://www.emacinc.com).

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