Introducing The SoM-A5D35

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SoM-A5D35 System on Module

EMAC, Inc., announces the SoM-A5D35 is a System on Module (SoM) based on the Atmel ARM Cortex A5 ATSAMA5D35 processor. Designed and manufactured in the USA, this wide temperature, fanless ARM 536 MHz SoM has a 10/100 BaseT Ethernet included along with 4 serial ports with handshake. It utilizes up to 4GB of eMMC Flash, up to 16MB of serial data flash, and up to 512MB of LP DDR2 RAM. A SoM is a small embedded module that contains the core of a microprocessor system.

Using the same small 144 pin SODIMM form-factor utilized by other EMAC SoM modules, the SoM-A5D35 is the ideal processor engine for your next design. All of the ARM processor core functionality is included on this tiny board including: Flash, Memory, Serial Ports, Ethernet, I2S Audio, PWMs, Timer/Counters, A/D, digital I/O lines, Clock/Calendar, and more.

The SoM-A5D35 is designed to plug into a carrier board that contains all the connectors and any custom I/O required for the application.

This approach allows the customer or EMAC to design a Custom Carrier Board, that meets the customer's I/O, dimensional, and connector

requirements without having to worry about the processor, memory, and standard I/O functionality. With this System on Module approach, a semi-custom hardware platform can be developed in as little as a month.

In addition to the option of the developing a custom carrier board, one can be purchased off-the-shelf from EMAC. EMAC provides off-the-shelf Carrier boards that feature A/D, D/A, MMC/SD card, keypad, LCD, Audio, and Modem interfaces. The recommended off-the-shelf

Carrier Board for the SoM-A5D35 is the SoM-150ES which allows the user to immediately start coding their application using the powerful

Linux or WinCE Operating System and Tools.

The System On Module approach provides the flexibility of a fully customized product at a greatly reduced cost.

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