

LOW POWER ARM CORTEX-A8 SYSTEM ON MODULE (SOM) WITH 3D VIDEO

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[SoM-3517M Top View](https://emacinc.com/sites/default/files/styles/large/public/field/image/som_3517.png?itok=KQSDoDgr)

EMAC, Inc., announces the SoM-3517M, a System-on-Module (SoM) based on the TI ARM Cortex-A8 processor. This Fanless ARM Cortex, 600 MHz SoM has an Ethernet PHY included along with 4 serial ports. It utilizes up to 512MB of external DDR2 / SDRAM, 1GB of NAND Flash, up to 4GB of eMMC Flash and includes an MMU which allows it to run Linux and Windows CE Operating Systems. A SoM is a small embedded module that contains the core of a microprocessor system.

Using the same small 200 pin SODIMM form-factor utilized by other EMAC SoM modules, the SoM-3517M is the ideal processor engine for your next design. All of the ARM processor core is included on this tiny board including: Flash, Memory, Serial Ports, Ethernet, SPI, I2C, I2S Audio, CAN 2.0B, PWMs, Timer/Counters, A/D, digital I/O lines, video, Clock/Calendar, and more. The SoM-3517M additionally provides a math coprocessor, and 2D/3D accelerated video and image scaling/rotation.

The SoM-3517M 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 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, Touchscreen, and Audio interfaces. The recommended off-the-shelf Carrier Board for the SoM-3517 is the SoM-250ES which allows the user to immediately start coding their application using Linux or WinCE Operating Systems and Tools.

The System on Module approach provides the flexibility of a fully customized product at a greatly reduced cost. The SoM-3517M is ideal for any Web/Network, Data Acquisition and Control or User Interface application.

For additional information go to: [SoM-3517M](#)
