

## **NEW PRODUCT PRESS RELEASE**

**Availability: NOW**

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**FOR IMMEDIATE RELEASE**

### **Ultra Low Power iMX6U System on Module with APM Sleep Mode of 3.5mA**

Designed and manufactured in the USA, the SoM-iMX6U is an Ultra Low Power System on Module (SoM) designed to plug into an EMAC carrier board that contains all the connectors and I/O required for a system. The recommended development / carrier board for the SoM-iMX6U is the SoM-150. A SoM is a small embedded module that contains the core of a microprocessor system.

The SoM-iMX6U is based on an industrial temperature, Freescale/NXP i.MX6 UltraLite (MCIMX6G1) Cortex A7 528 MHz system on module with 512MB of LP DDR2 RAM, 4GB eMMC Flash and 16MB of serial data flash, which allows it to run the Linux Operating System. The module has APM Sleep Mode of 3.5mA, 1x 10/100 BaseT Ethernet, 4x serial ports, 2x USB 2.0 ports, 22x GPIO (3.3V) lines, 1x SDIO SD port, 2x I2S audio ports with line in/out, 1x CAN, 1x SPI, 1x I2C, 2x timer/counters/PWMs and internal real time clock/calendar (with external battery backup), External reset button provision and green Status LED.

The SoM approach allows clients to develop a product using a commercial off the shelf (COTS) development / carrier board for the proof of concept or production units. If the product or project has specific dimensional, I/O or connector placement requirements, a semi-custom carrier board can be created in as little as a month. Using the SoM approach, product lifecycle concerns for the processor, memory and other SoM based components are minimized.

[http://www.emacinc.com/products/system\\_on\\_module/SoM-IMX6U](http://www.emacinc.com/products/system_on_module/SoM-IMX6U)

### **Features**

- Freescale/NXP i.MX6 UltraLite Cortex A7 528Mhz Processor
- APM Sleep Mode of 3.5mA
- 512MB of LP DDR2 RAM
- 4GB of eMMC Flash
- 16MB of Serial Data Flash
- 22x GPIO (3.3V) lines
- 1x SDIO
- 1x SD Flash Card Socket

- 2x I2S synchronous serial I/O audio ports with line in/out
- 1x 10/100 BaseT Ethernet
- 4x serial ports, 1x CAN ports
- 1x USB 2.0 high speed host port
- 1x USB 2.0 high speed OTG port (host/device)
- 1x SPI port
- 2x Timer/Counters/PWM channels
- Internal Real Time Clock/Calendar (with external battery backup)
- External reset button provision and green Status LED.
- 1x I2C port
- 4x A/D channels with 12-bit A/D resolution (0 to 3.3V)
- EMAC OE Embedded Linux
- Typical Running Current Approximately 160mA
- Temperature Range: -40° to +85°C

Please contact EMAC for OEM & Distributor Pricing. Quantity 1 pricing for the SoM-iMX6U is \$150/ea.

**About EMAC, Inc.** - [www.emacinc.com](http://www.emacinc.com)

EMAC is an acronym for Equipment Monitor and Control. Our company designs and manufactures embedded systems that include Single Board Computers, System on Modules (SoM), Carrier Boards, Industrial Panel PCs, Custom Solutions and Embedded Operating Systems.

Since 1985 EMAC has provided commercial off the shelf and custom turnkey embedded products that can integrate the newest technologies including: sensor data, Wi-Fi, Zigbee, Bluetooth LE, GPS, cell modems, audio & video streaming /capture, FPGA, RFID and more.

Our team is experienced with hardware & software design, GUI interfaces, remote login, real time solutions, Windows Embedded, DOS, Embedded Linux, Real-Time Linux, custom hardware drivers, application development and support. Contact the EMAC Sales Team today at 618-529-4525 or [info@emacinc.com](mailto:info@emacinc.com) and learn how *Our Products Make Your Products Better*®