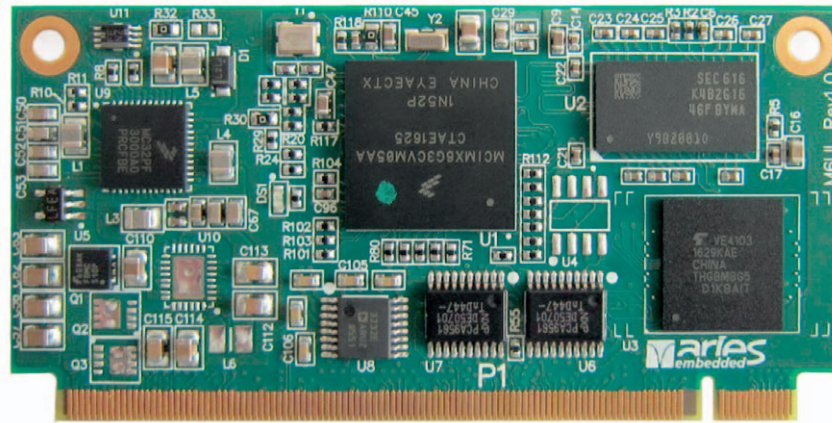


M6UL System on Module

The M6UL module is the drop-in replacement of the successful M28 System on Module. It is based on the i.MX6UltraLite processor by NXP Semiconductor.

The i.MX6UltraLite processor is a high-performance, ultra-efficient processor family featuring an advanced implementation of a single ARM® Cortex® -A7 core. This processor boasts of a premium feature set that includes: flexible boot options, hardware-enabled security features, connections to a variety of popular interfaces.



M6UL featureset:

- i.MX6UltraLite, up to 696 MHz speed
- 64/128/256M x16 DDR3 DRAM
- 4 MByte SPI NOR
- 4 GByte e.MMC NAND Flash
- Interfaces:
 - LCD
 - 2 x CAN
 - SDcard
 - 2 x 10/100 Ethernet with IEEE 1588
 - 2 x USB OTG
 - UART/ I2C/ SPI/ GPIO/ I2S
- high-efficient programmable PMIC
- Li-Ion/Li-Pol charge controller (optional)
- Security features:
 - Read-only unique ID for Digital Rights Management (DRM) algorithms
 - "on-the-fly" DRAM encryption (AES-128)
 - High assurance boot (HAB)
- Size: 70mm x 35mm

OS Support:

- U-Boot
- Linux



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M6UL Evaluation Kit

The M6ULEVK is the flexible evaluation platform for M6UL which enables user to setup a running system in a short time frame.



M6ULEVK featureset:

- i.MX6 UltraLite, up to 696MHz speed
- MXM socket for M6UL
- SD-card socket
- USB 2.0 OTG connector
- USB 2.0 Host connector
- LCD flat cable header/pin header
- 2 x RS232 on DSUB9
- 2 x Ethernet 10/100MBit on RJ45
- 2 x CAN on DSUB9
- DIP switch for boot mode
- SGTL5000 for audio interfacing
 - line in/mic in
 - headphone out/speaker out
- JTAG interface
- CPLD for I2C or SPI expansion
- Operating Voltage: 5VDC
- Power Supply by USB or screw header.
- EVK schematics

M6ULEVK kit contents:

- M6UL featuring:
 - i.MX6 UltraLite
 - 128MB DDR3 DRAM
 - 4MB SPI NOR
 - 4GB e.MMC
- M6ULEVK
- 17,7cm (7") LCD with touchscreen
- power supply



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