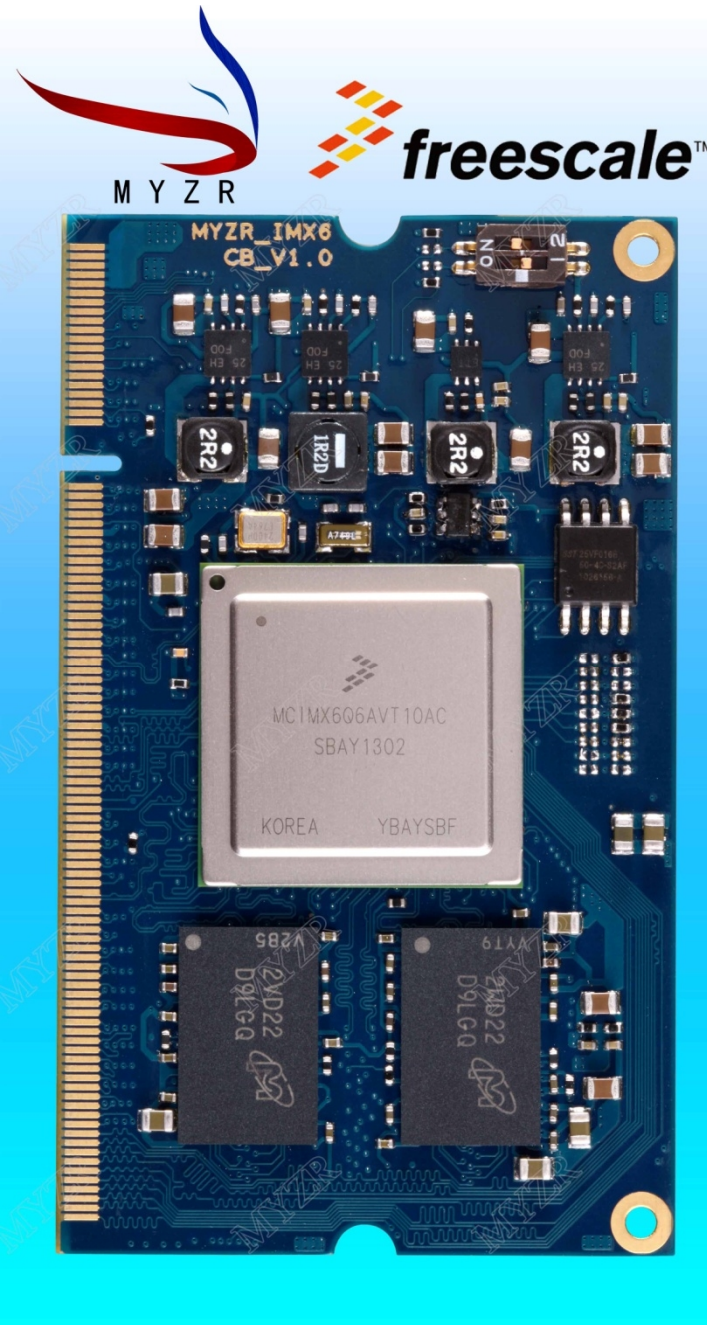


MY-i.MX6



Computer On Module

- Processor Freescale i.MX 6Quad, 1GHz
- RAM 1GB DDR3 SDRAM 64-bit
- ROM 4GB NAND Flash UP to 16GB
- ROM 2M SPI Nor Flash
- Power supply Single 5V
- Size 40mm SO-DIMM
- Temp.-Range
 - 0 to + 95C (Consumer)
 - 20 to + 105C (Extended Consumer)
 - 40 to +105C (Industrial)
 - 40 to + 125C (Automotive)

Key Features

- 10/100Mbps Ethernet
- One High Speed USB 2.0 ports
- Full HD LCD controller, 24bpp
- OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators
- Multi-format HD 1080p60 video decoder and 1080p30 encoder hardware engine
- Two Camera Interfaces
- NEON MPE coprocessor
 - SIMD Media Processing Architecture
 - dual, single-precision floating point execute pipeline
- Unified 1MB L2 cache
- Several interfaces:
 - 5x UART, 2x SDIO, 1x SSI/AC97/I2S, 3x I2C, 2xCSPI
- 3.3V I/O
- 2x Controller Area Network (FlexCAN)
- PCIe 2.0 (1-lane)

LVDS Option only:

- Dual LVDS display port
- SATA

OS Support

- Linux 3.0
- Android 4.2

Application:Media Tablet,Education Tablet PC,EBook,Automotive Infotainment,Aviation Infotainment,HMI,Portable Medical Instruments,IPTV,IP Phone,Smart Energy Systems,Intelligent industrial control systems

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MY-i.MX6



MYZR

Board highlights:

- Highly integrated
- Standard MY-DIMM200 pinout
- as small as possible - only 40mm
- 3.3V I/O

The MY-i.MX6 is a member of the MY module series, specially designed for Freescales i.MX multimedia processors. MY modules are complete computers, implemented on a board smaller than a credit card, and ready to be designed into your embedded system. MY modules includes a Freescale® i.MX processor, SDRAM and Flash memory. The integrated LCD-controller enables direct connection of an LCD screen. The MY-i.MX6 is specifically targeted at embedded applications where size, high cpu-performance and cost are critical factors.

Processor

The i.MX 6Dual and i.MX 6Quad processors represent Freescale Semiconductor's latest achievement in integrated multimedia applications processors. These processors are part of a growing family of multimedia-focused products that offer high performance processing and are optimized for lowest power consumption.

The i.MX 6Dual and i.MX 6Quad processors feature Freescale's advanced implementation of the quad ARM Cortex™-A9 core, which operates at speeds up to 1 GHz. They include 2D and 3D graphics processors, 3D 1080p video processing, and integrated power management. Each processor provides a 64-bit DDR3/LVDDR3/LPDDR2-1066 memory interface and a number of other interfaces for connecting peripherals, such as WLAN, Bluetooth™, GPS, hard drive, displays, and camera sensors.

High Performance CPU : ARM Quad Cortex-A9

- ARM Cortex-A9, with ARMv7™, Neon, VFPv3 and Trustzone support
- 32K instruction and data L1 caches and 256 KB to 1 MB of L2 cache
- Multi-stream-capable HD video engine delivering 1080p60 decode, 1080p30 encode and 3D video playback in HD in high performance families
- Superior 3D graphics performance with up to quad

Standard MY-DIMM200 pinout:

- 4-wire UARTs (x2)
- LCD
- I2C / PWM
- Serial Audio Interfaces (x2)
- 4-wire SD-Card/SDIO

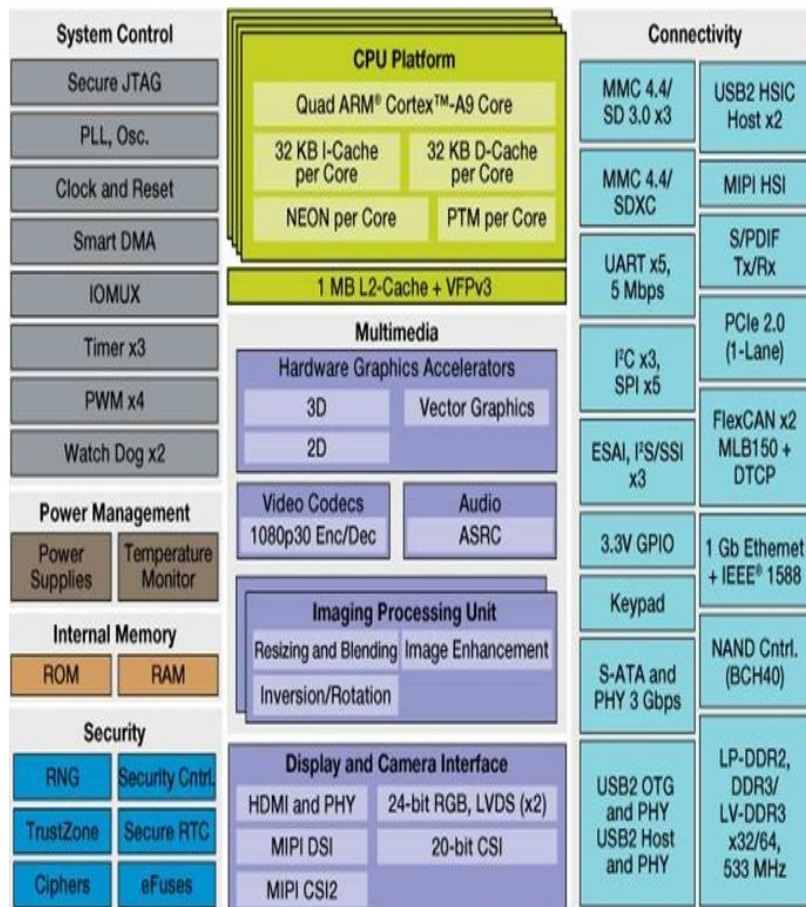
High-Speed communication interfaces incl. onboard Ethernet PHY / on-chip USB PHY allows direct use of connectors/magnetics on the baseboard without the need for additional logic:

- 10/100 Mbps Ethernet
- 480 Mbps USB OTG (Host or Device)
- 480 Mbps USB Host

Power Supply

The MY-i.MX6 accepts an input voltage from various sources:

- 1-cell Li-Ion/Polymer (up to 4.2V)
- 5.0V USB supply or AC wall adapter
- 3.3V



shaders performing 200 MT/s Separate 2D and/or Vertex acceleration engines for an optimal user interface experience

- Stereoscopic image sensor support for 3D Imaging