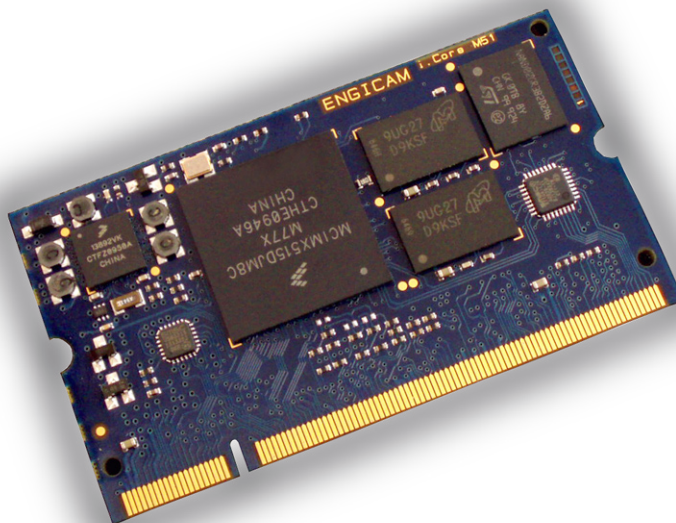


i.Core M51

CORTEX A8 CPU MODULE

- High integration
- Great flexibility of use
- PCB cost reduction
- Lower time to market
- Few external components required



Features

Core

- Freescale™ i.Mx515
- CORTEX A8 @ 800MHz
- 32 KB instruction and data cache
- 256 KB L2 cache
- NEON SIMD media accelerator
- Vector Floating point coprocessor

Graphic and multimedia

- 1x LCD Controller 24bit WXGA
- 1xLCD Controller 18 bit SVGA
- 1xAnalog HD720p component video out
- OpenGL ES 2.0 HW Accelerator
- OpenVG 1.1 HW Accelerator
- HD 720p video decoder HW Engine
- D1 video Encoder HW Engine
- Touch screen
- Camera Interface

Communication

- 1x USB OTG HS + PHY
- 1x USB HS HOST + PHY
- 1x Ethernet 10/100 + PHY
- 3x Uart's
- 2x I2C Bus
- 1x HS I2C Bus
- 1x I2S
- 1x Multiplexed data Bus

Security

- Sahara v4
- Trust Zone
- RTIC
- RCC v2
- SRTC

Memories

- 512MB DDR2 @ 200 MHz
- 256MB NAND Flash
- 2x SD Card interface

Dimensions

- Standard SODIMM footprint
- 67,6x38 mm PCB size
- Very Low Profile Module
- i.Core M51L pinout compatible

Software

- Linux 2.6.31
- Ubuntu
- Windows CE 6.0

Starter kit

- 1x Ethernet 10/100
- 2x RS232
- 1xRS485
- 4x High Speed USB HOST
- 1x High Speed USB OTG
- 1x Phone output
- 1x Mic input
- 1x Audio input
- 1x Audio output
- 1x DVI Display connector
- 1x VGA Display connector
- 1x LVDS Display connector (shared with DVI)
- 1x Component TVout
- 1x MicroSD slot (OS disk)
- 1x MicroSD slot (storage Disk)

