

# SBC-i.MX51 - Single-Board Computer

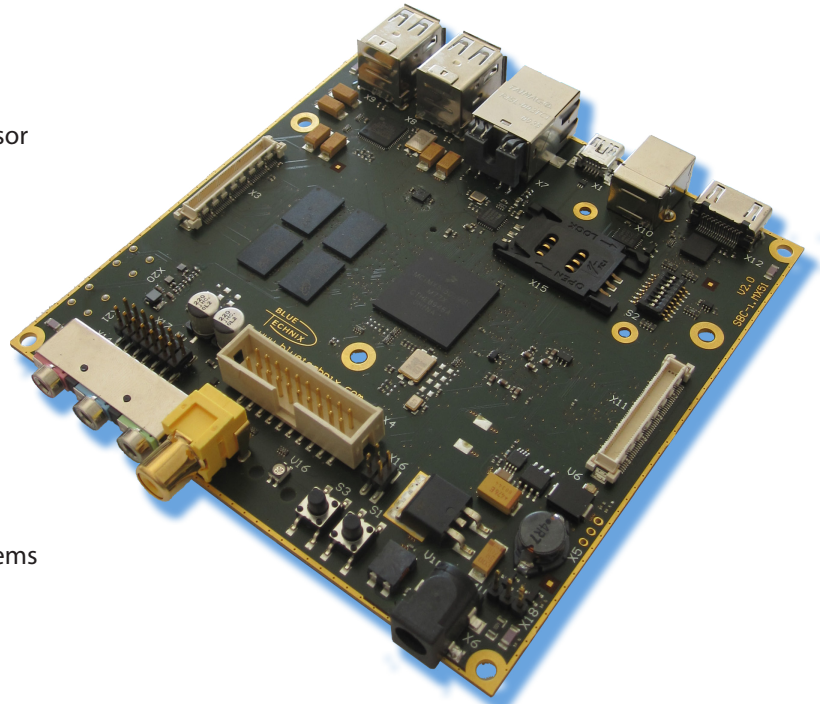
The Single-Board Computer SBC-i.MX51 is based on Freescale's high-performance i.MX51 mobile platform, incorporating an ARM Cortex-A8 CPU, an Image Processing Unit (IPUv3EX) and a Video Processing Unit (VPU). The IPUv3EX provides comprehensive support for the connectivity to displays and cameras. The VPU supports hardware encoding and decoding of MPEG-4, H.263 and H.264 standards. The board's memory capabilities (NAND Flash, DDR2) and numerous interfaces like Ethernet, HDMI, 4xUSB and USB-OTG turn the SBC-i.MX51 into the ultimate development board for future high-end embedded devices.

## Advantages

- Tiny, low-cost i.MX51 board
- High-performance embedded ARM processor
- Multimedia video hardware en-/decoder
- Numerous peripheral interfaces
- Linux and WinCE support

## Target Applications

- Industrial applications
- Automation and control systems
- Multimedia consumer devices (Netbooks)
- Rapid Development Kit for embedded systems



## Board Features

|                         |   |
|-------------------------|---|
| <b>PROCESSOR</b>        | Freescale i.MX51 Multimedia Application Processor incorporating 32 bit ARM Cortex-A8  |
| <b>CLOCK</b>            | Up to 800MHz  |
| <b>L1/L2 CACHE</b>      | 32kB instruction + 32kB data / 256kB shared   |
| <b>MEMORY</b>           | 512MByte DDR2 SDRAM<br>2GByte NAND Flash  |
| <b>POWER MANAGEMENT</b> | MC13892VK power management IC   |
| <b>INTERFACES</b>       | 1-Wire, Audio, Camera, CVBS, Ethernet, HDMI, I <sup>2</sup> C, JTAG, Keypad, LCD, LEDs, PWM, SD-Card, SPI, 3xUART, 4xUSB, USB-OTG |
| <b>TEMP. RANGE</b>      | -20°C to +85°C  |
| <b>DIMENSIONS</b>       | 120x120mm   |
| <b>SW-IMAGES</b>        | High-quality, easy-to-use Linux platform, WinCE   |



Product illustration not binding

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