

- ✓ Freescale i.MX6Dual/Quad, ARM® Cortex™-A9 core @ 1GHz
- ✓ 1 GByte DDR3L 64 Bit
- ✓ Mini HDMI and LVDS + Touch display
- ✓ 1 Micro USB OTG, 2 USB 2.0 type A (500mA each)
- ✓ 1 micro SD card, 1 eMMC, 1 mSATA, 1 mPCIe
- ✓ 1 microsim slot for GSM/LTE
- ✓ Up to 2 Ethernet RJ45 (10/100/1000 MBit)
- ✓ Analog Audio and Mic jacks
- ✓ SPI, 2xCAN, i2c, 3xCMOS UART, 1xRS232 UART, GPIOs
- ✓ Lauterbach compatible MIPI60 connector with JTAG and TRACE
- ✓ Lattice ECP5 user FPGA with up to 85K Logic element
- ✓ 512 MByte DDR3 FPGA memory
- ✓ HIGH SPEED B2B connectors (12,8 Gbps)
- ✓ Compact size

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INVENTAMI

SBC Platform



Description

INVENTAMI is a powerful **single board computer (SBC)** based on a Freescale **i.MX6 SOC** paired with a Lattice **ECP5 FPGA**.

It can be used either as a general purpose prototyping board or as an embedded SBC: its features and the computational power of the CPU together with the unlimited flexibility of the FPGA make INVENTAMI a one-step-ahead candidate for a great range of applications.

Moreover INVENTAMI platform natively supports high performance stereo video acquisition and processing applications with two input sensor interfaces and a specific 512 Mbyte image buffer, extending the CPU video capture features.

The platform supports SATA card for storage solutions, PCIExpress and up to two Gigabit Ethernet interfaces for fast data transfer.

Video Output is provided over either HDMI or LVDS with display interface. Expansion connectors are available with GPIOs and a high speed board-to-board link.

BSP and custom drivers are open-sources.

Possible applications include machine vision, security and surveillance, medical diagnosis tools, smart traffic system.

