



Si14 - Embedded Solutions

iMX25SODIMM freescale iMX-25 SODIMM module

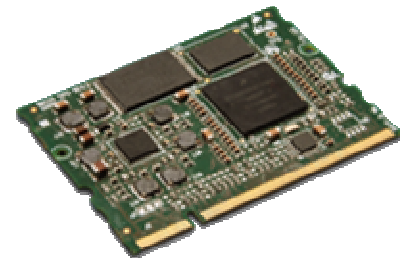
Overview

Key features

Complete Freescale iMX25 based solution on a standard SODIMM module.

Key benefits

- Low cost solution
- Standard SODIMM connector
- Powerful CPU (up to 400MHz)
- Ready to use design – reduced time to market
- No JTAG needed
- Windows CE 6.0 and Linux BSP freely available



Key features

- Single 3.3V power supply, power energy management
- On-the-fly video processing
- Powerful ARM9 processor
- USB 2.0 high speed (480Mbps)
- SDHC, MMC, CAN, UART, ADC, Audio, I2C
- Integrated Fast Ethernet controller
- Up to 800x600 video controller resolution

- < 1.5 W power consumption
- Available in extended temperature range (-20 °C to + 85 °C)

This module comes with extended software support in order to reduce development costs and shrink time to market.

Software support includes:

- U-Boot
- WinCE and Linux BSPs
- Ready-to-use cross-compilation tools and environment
- Native, high performance Qt libraries

This allows the development of working applications in just a few days. On the iMX-25 module Si14 also offers support and assistance in developing custom boards, allowing the reduction of development time, certification and prototyping costs.

Design support includes:

- Sample schematics
- Application notes for iMX-25 peripheral implementation

Ordering Information Part number / Description:

- **1001A** iMX-255 with 64MB DDR2 and SPI flash boot
- **1001B** iMX-255 with 128MB DDR2 and 4GB Nand flash
- Custom versions on request

Specifications

CPU Type	ARM926EJ-S
CPU Speed	266 - 400 MHz
CPU Cache	16 KB/16 KB
DRAM	up to 128 MB DDR2 - 266MHz
Flash	Up to 8 GB NAND Flash
Video input	up to 30 fps D1 Resolution
LCD Display size	Up to 800x600 24bit
Camera interface	CCIR656 or direct CMOS sensor
UART	3x 3.3v Universal Asynchronous Receiver/Transmitter
USB2 Host	1 USB Host High-speed – 480Mbps
USB2 OTG	1 USB On-The-Go High-speed – 480Mbps
MMC	yes

SDIO	yes
Ethernet	1 Fast Ethernet with integrated PHY
Audio controller	Support for I2S or AC97 codec
I2C bus	1 I2C bus
SPI bus	1 SPI buses
CAN bus	2 CAN buses
ADC	12 bit channel
Power supply	3.3V +/-5%
Power consumption	< 1.5 W
Operating temperature	-20°C to +85°C
Storage temperature	-20°C to +125°C