

Key benefits

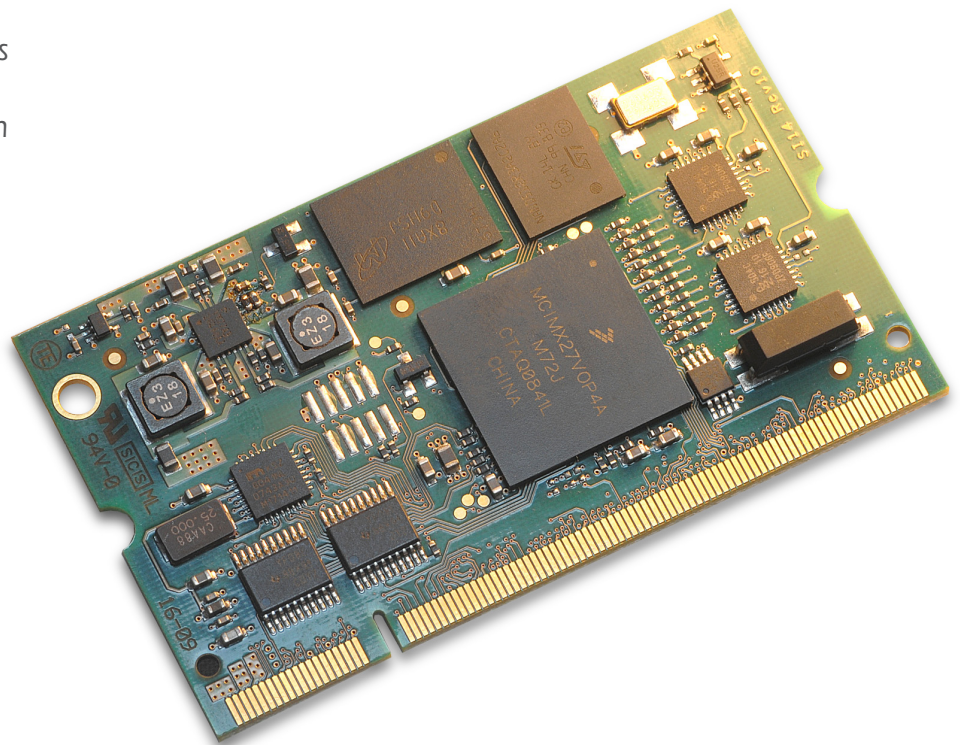
- Low cost solution
- Standard SODIMM 1,8 V connector
- Powerful CPU (up to 400MHz)
- No video coding royalties
- Optimized for video acquisition and coding
- Ready to use design – reduced time to market
- Windows CE 6.0 and Linux BSP available

Key Applications

- Low cost multimedia solutions
- Video surveillance
- Automotive navigation system
- Human machine interface
- Infotainment
- Voice over IP systems

Key features

- MPEG4, H.264, H.263 encoder/decoder
- On-the-fly video processing
- Powerful ARM9 processor
- USB 2.0 high speed (480Mbps)
- SDHC, MMC
- Integrated Fast Ethernet controller
- Up to 800x600 video controller resolution
- < 1.5 W power consumption
- Industrial temperature range



iMX-27 • SODIMM module

Compact, ready to use, full featured
iMX-27 solutions

iMX-27

SODIMM Module

Processor	CPU Type : ARM926EJ-S CPU Speed : 266 - 400 MHz CPU Cache : 16 KB/16 KB										
DRAM	Up to 128 MB DDR - 266MHz										
Flash	Up to 128 MB NAND Flash										
Video Acceleration	H.264, MPEG-4, H.263 HW Encoder and Decoder; 30 fps D1 Resolution Half Duplex, 24 fps VGA Resolution Full Duplex										
Image Pre- and Post-Processor	Color Space Conversion, De-Block, De-Ring, Resize, Rotation, Mirroring										
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										
Audio controller	Support for I2S or AC97 codec										
I ² C bus	1 I ² C bus										
SPI bus	2 SPI buses										
Power Supply	5V +/-5%										
Power consumption	< 1.5 W										
Operating temperature	-40°C to +85°C										
Storage temperature	-40°C to +125°C										
Ordering Information	<table><thead><tr><th>Part number</th><th>Description</th></tr></thead><tbody><tr><td>0902A</td><td>iMX-27L with 64MB DDR2 and 64MB Nand flash</td></tr><tr><td>0902B</td><td>iMX-27 with 64MB DDR2 and 64MB Nand flash</td></tr><tr><td>0902C</td><td>iMX-27L with 128MB DDR2 and 128MB Nand flash</td></tr><tr><td>0902D</td><td>iMX-27 with 128MB DDR2 and 128MB Nand flash</td></tr></tbody></table>	Part number	Description	0902A	iMX-27L with 64MB DDR2 and 64MB Nand flash	0902B	iMX-27 with 64MB DDR2 and 64MB Nand flash	0902C	iMX-27L with 128MB DDR2 and 128MB Nand flash	0902D	iMX-27 with 128MB DDR2 and 128MB Nand flash
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