

Key benefits

- Low cost solution
- Powerful CPU (up to 400MHz)
- No video coding royalties
- Optimized for video acquisition and coding
- Ready to use design – reduced time to market
- No JTAG needed
- 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
- Available in extended temperature range (-20 °C to + 85 °C)

iMX-27 Single Board

Complete Freescale iMX27 based solution

iMX-27 Single Board

Processor	CPU Type : ARM926EJ-S CPU Speed : 266 - 400 MHz CPU Cache : 16 KB/16 KB
DRAM	Up to 128 MB DDR - 266MHz
Flash	64 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
LCD	LCD ZIF connector available
MMC	1 SD port with MMC/SD/SDIO
USB2 Host	2 USB Host High-speed – 480Mbps
Ethernet	1 Fast Ethernet port (on RJ45 connector)
RS-485	RS-485 ports available (on Euroclamp connector)
IR	1 Infrared port available (on Euroclamp connector)
Audio	1 Audio in and 1 audio out ports (on Euroclamp connector)
Speaker	1 Speaker port available (on Euroclamp connector)
Camera	1 Camera port available (on Euroclamp connector)
Touch screen	1 Touch screen port available (on 4-pin FPC connector)
Power supply	12 V \pm 10%
Power consumption	2,4 W (excluding peripheral devices such as USB devices)
Operating temperature	0°C to + 85°C
Storage temperature	- 20°C + 125°C

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