



Si14 - Embedded Solutions

TI OMAP module

Omapi 3 card engine

Key benefits

- Low cost solution
- Standard SODIMM connector
- Optimized for HD video acquisition and coding
- Sophisticated video processing, 2D and 3D graphics
- Windows CE 6.0 and Linux BSP freely available

Key features

- 500MHz ARM Cortex-A8 CPU
- NEON SIMD media accelerator
- Hardware 3D engine supporting OpenGL-ES 2. and OpenVG 1.1
- Multiformat HD720 video decoderH
- Dual video output up to SXGA
- High speed USB OTG
- Wide array of interfaces: MMC/SDIO, SPI, I2C, UART, 10/100 Ethernet
- Dual Head display interface
- Commercial and industrial temperature range

Specifications

Processor	500MHz ARM Cortex-A8 cpu 32KB instruction & data caches Unifed 256KB L2 caches NEON SIMD media accelerator Vector floating point accelerator
DRAM	Up to 256MB
Flash	Up to 128MB
Video	HD 720p video decoder, POWERVR SGX 2D/3D graphics accelerator

Acceleration	Image Pre- and Post-Processor
Video output	Up to two display HD720p output, 3layer, 24 bit SXGA display, 2 TV analog output Svideo
Camera interface	1 port REC656,CCIR656,YCbCr422, 75Mpixel/sec color space conversion, resize, inversion, rotation
UART	3 interfaces
LCD Display size	Up to 800x600 24bit
Camera interface	CCIR656 or direct CMOS sensor
UART	3x 3.3v Universal Asynchronous Receiver/Transmitter
CAN bus	1 channel
USB 2 Host	1 USB High-Speed - 480 Mbps
USB 2 OTG	2 USB On-The-Go High-Speed -480 Mbps
SD/MMC	2 SD/MMC external interfaces
SDIO	1 interface
Audio controller	1 IVA 2.2, I2S
I2c bus	2 I2c bus
Power Supply	5V power input
External local bus	8 bit interface
Operating temperature	0 to +60°C commercial, -20° to +85° industrial
Power consumption	< 1.5 W
Operating temperature	-20°C to +85°C