

Key benefits

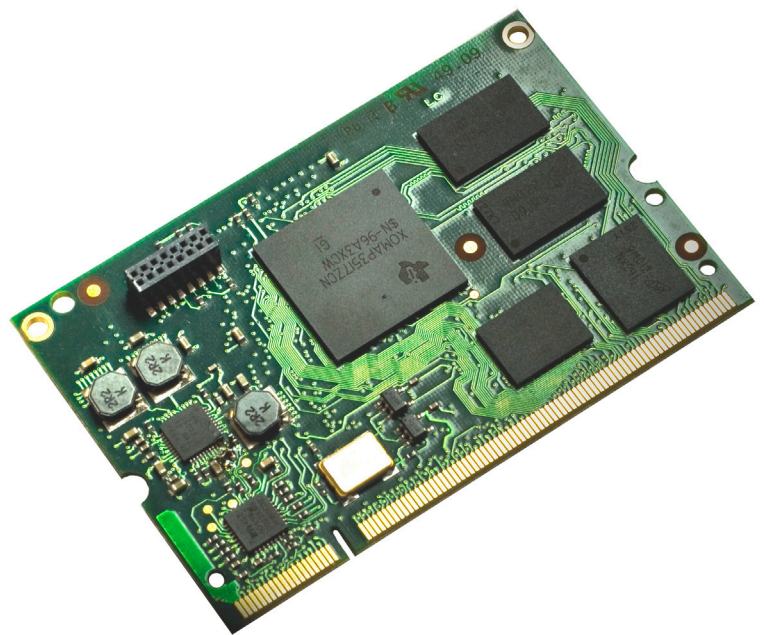
- Standard SODIMM connector
- Low cost solution
- Optimized for HD video application
- Sophisticated video processing, 2D and 3D graphics
- Windows CE 6.0 and Linux BSP available

Key Applications

- High performance multimedia applications
- HD video surveillance
- Video gaming 2D & 3D
- Navigation systems
- Infotainment
- High end human machine interfaces
- Security applications

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



Omapi 3 card engine • SODIMM module

Omapi 3 card engine
based on SODIMM module

Omap 3 card engine

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|-----------------------|--|
| 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 Acceleration | HD 720p video decoder, POWERVR SGX 2D/3D graphics accelerator 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 |
| 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, I ² S |
| I ² c bus | 2 I ² c bus |
| Power Supply | 5V power input |
| External local bus | 8 bit interface |
| Operating temperature | 0 to +60°C commercial, -20° to +85° industrial |

rev. 1.2