

Key benefits

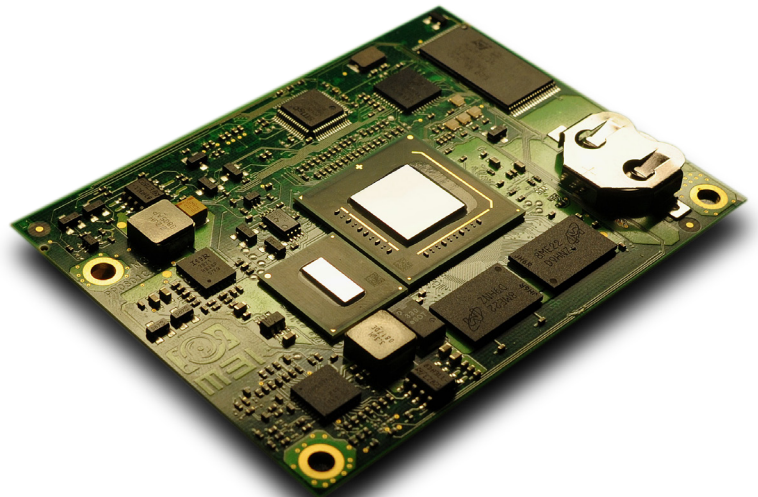
- Scalable solution (from 1.1 MHz to 1.6 GHz)
- Low power consumptions (less than 5 Watt)
- Smaller Modular Solution
- Best performance/Watt ratio
- Boot from removable devices
- Configurable BIOS ad HW
- X86 architecture compliant solution
- Windows XP, XP embedded, Vista and Linux fully supported

Key Applications

- Building & Home Automation
- Programmable Automation Controller
- Digital Signage
- Portable Point-of-Sales, ATM, Kiosks
- In-vehicle Infotainment Head-unit
- Entry Gaming Machine
- Biomedical Application

Key features

- Intel® Atom™ Processor family
- Up to 1GB DDR2 Ram
- Intel® Graphics Media Accelerator 500: 2D, 3D and advanced 3D graphics support
- Dual Head Video (LVDS up to 1280x1024 and SDVO up to 1080i)
- H264 hardware codec up to 1080i@30fps, High Profile, L4.1 (MPEG2-4, VC1, and WMV9 supported)
- HDA Audio up to 4 audio streams (up to 16 channels each), 32-bit sample depth, and sample rates to 192 KHz
- 8 USB 2.0 Host (1 client configurable)
- Interfaces: LPC, IDE, PCI-Ex 1x, GPIO, UART, IRDA
- Commercial and industrial operating temperature



Mirach • Intel® Atom™ module

Intel Atom™ processor
a new generation of powerful
and energy-efficient mobile
processing unit

Mirach

Processor	Intel® ATOM™ Silverthorne from 1,1 MHz to 1.6 GHz
Chipset	Intel® Poulsbo US15W Front Side Bus: 400 / 533 MHz
Bus	2x PCI Express 1X 1x LPC
DRAM	DDR2 On board up to 1GB
Serial Ports	1x UART 1x IRDA
USB	8x USB 2.0 Host (1 client configurable)
Video	1x LVDS 24 bit (up to 1280x1024) 1x SDVO (up to 1080i)
Mass Storage	1x IDE 2x SDIO/MMC
Audio	1x Intel® HDA
Hardware Monitoring	1x RTC 1x Watchdog timer
GPIO	12x channel GPIO, Linux driver
Power Supply	+5V Support S0, S3, S4, S5 power states New power state C6: Deep Power Down Technology
Physical Features	Modular 82 mm x 61 mm (Commercial) 82 mm X 82 mm (Industrial) Fanless heatsink
Operating Temperature	0 to +60° (Commercial) -40° to +75° (Industrial)
Configurations	Mirach-003: Intel® ATOM™ Z510 1.1GHz, 512MB DDR2 on board Mirach-003i: Intel® ATOM™ Z510 PT 1.1 GHz, 512MB DDR2 on board (industrial temperature range) Mirach-004: Intel® ATOM™ Z510 1.1GHz, 1GB DDR2 on board Mirach-005: Intel® ATOM™ Z530 1.6GHz, 512MB DDR2 on board Mirach-006: Intel® ATOM™ Z530 1.6GHz, 1 GB DDR2 on board Mirach-007i: Intel® ATOM™ Z520 PT1.33 GHz, 512 MB DDR2 on board (industrial temperature range)

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