

## Key benefits

- Competitive prices with ARM11 and CORTEX Cores
- Scalable solution (from 800 Mhz to 1.86GHz)
- Low power consumptions (from 1 to 5 Watt)
- Smaller Modular Solution (80x60mm)
- Best performance/Watt ratio
- Boot from removable devices
- Configurable BIOS and 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
- Operating temperature: 0°, +60°C; -40°, +85°C



# Mirach • Intel® Atom™ module

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



## Mirach

Processor	Intel® ATOM™ Silverthorne from 800MHz to 1.86GHz  <b>Configurations:</b> Mirach-001: Intel® ATOM™ Z500 800MHz, 512MB DDR2 on board Mirach-002: Intel® ATOM™ Z500 800MHz, 1GB DDR2 on board Mirach-003: Intel® ATOM™ Z510 1.1GHz, 512MB DDR2 on board 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, 1GB DDR2 on board
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 1x SDIO/MMC
Audio	1x Intel® HDA
Hardware Monitoring	1x RTC 1x Watchdog timer On board lithium battery
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 80 mm x 60 mm Fanless heatsink -0°C ... +60°C Temperature range



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