

## ML936-B Series

### Intel® US15WP/US15WPT ECX Board

#### PROCESSOR

- Intel® Low Power (IA-32 microarchitecture) processor
  - **ML936-B11C**
    - : Intel® Atom Z510P processor
    - : 400MHz system front side bus
    - : Speed supports 1.1GHz
  - **ML936-B16C**
    - : Intel® Atom Z530P processor
    - : 533MHz system front side bus
    - : Speed supports 1.6GHz
  - **ML936-B11T**
    - : Intel® Atom Z510PT processor
    - : 400MHz system front side bus
    - : Speed supports 1.1GHz
  - **ML936-B13T**
    - : Intel® Atom Z520PT processor
    - : 533MHz system front side bus
    - : Speed supports 1.33GHz

#### CHIPSET

- **ML936-B11C/B16C**
  - Intel® SCH US15WP
- **ML936-B11T/B13T**
  - Intel® SCH US15WPT

#### SYSTEM MEMORY

- One 200-pin SODIMM socket
- Supports DDR2 400/533MHz
- Supports up to 2GB system memory

#### EXPANSION SLOT (ECX Type 1)

- 1 slot for EXT-ECX2 daughterboard
  - 1 Mini PCI Express x1 slot
  - 4 USB ports (USB 6/7 supports USB 2.0 only)
  - 1 8-bit Digital I/O connector
  - 1 SDIO/MMC socket
  - 4 COM connectors
  - Audio (Line-out and Mic-in)

#### ONBOARD GRAPHICS FEATURES

- Intel® GMA 500 integrated graphics engine
- Estimated 200MHz core render clock at 1.05V core voltage
- Ultra low power integrated 3D graphics
- High definition hardware video decode engine
- Supports LVDS and SDVO interfaces
  - LVDS: Supports pixel clock depths of 18 or 24 bits, max. pixel clock of 112MHz, equates to 1376x768 @ 85Hz
  - SDVO: Up to 160MHz pixel clock, equates to 1280x1024 @ 85Hz

#### ONBOARD AUDIO FEATURES

- Realtek ALC262 2-channel High Definition Audio
- 1 stereo DAC supports 16/20/24-bit PCM format with 44.1/48/96/192KHz sample rate
- 2 stereo ADCs support 16/20-bit PCM format with 44.1/48/96/192KHz sample rate

#### ONBOARD LAN FEATURES

- One Realtek RTL8111C PCI Express Gigabit Ethernet controller
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

#### IDE INTERFACE

- Supports up to two Ultra ATA 33 IDE devices
  - Note:** We do not recommend using IDE devices and CF card at the same time.

#### REAR PANEL I/O PORTS

- 1 mini-DIN-6 port for PS/2 Mouse and PS/2 KB ports
- 1 DVI-I port (DVI-D signal only)
- 1 RJ45 LAN port
- 2 USB ports
- 1 line-out audio jack
- 1 DC-in 12V jack

#### I/O CONNECTORS

- 1 connector for 2 external USB 2.0/1.1 ports
- 2 connectors for 2 external RS232/RS422/RS485 serial ports
- 1 LVDS LCD panel connector
- 1 LCD/inverter power connector
- 1 S/PDIF-in/out connector
- 1 CD-in connector
- 1 44-pin IDE connector
- 1 front panel connector
- 1 CompactFlash socket
- 1 SDIO/MMC socket
- 1 expansion slot for EXT-ECX2 daughterboard

#### BIOS

- Award BIOS
- 8Mbit BIOS

#### ENERGY EFFICIENT DESIGN

- Supports ACPI specification 2.0/1.0
- Enhanced Intel® SpeedStep Technology

#### DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors CPU(V)/1.05V/1.8V/5V/12V voltages and failure alarm

#### TEMPERATURE

- **ML936-B11C/B16C**
  - 0°C to 60°C
- **ML936-B11T/B13T**
  - -40°C to 85°C

#### HUMIDITY

- 10% to 90%

#### PCB

- ECX form factor
- 105mm (4.14") x 146mm (5.75")

#### REAR PANEL I/O PORTS

