

ML936-B Series Intel® US15WP/US15WPT ECX Board

PROCESSOR

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

CHIPSET

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

SYSTEM MEMORY

- One 200-pin SODIMM socket
- Supports 400/533MHz DDR2 SDRAM
- Supports maximum of 2GB system memory

EXPANSION SLOTS (ECX Type 1)

- 1 expansion slot for EXT-ECX2
 - 1 Mini PCI Express x1 slot
 - 4 USB ports (USB 6/7 port 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® GMA500 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 High Definition audio CODEC
- 2-channel audio output
- 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 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 additional external USB 2.0/1.1 ports
- 2 connectors for 2 external serial ports (RS232/RS422/RS485 selectable)
- 1 LVDS LCD panel connector
- 1 LCD/inverter power connector
- 1 S/PDIF-in/out connector
- 1 CD-in internal audio connector
- 1 44-pin IDE connector
- 1 front panel connector
- 1 CompactFlash socket
- 1 SDIO/MMC socket
- 1 expansion slot

BIOS

- Award BIOS
- 8Mbit flash memory

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
- 10.5cm (4.14") x 14.6cm (5.75")

REAR PANEL I/O PORTS

