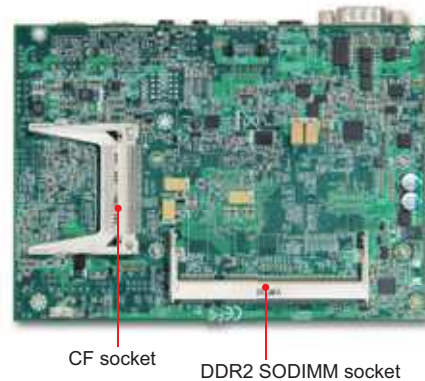
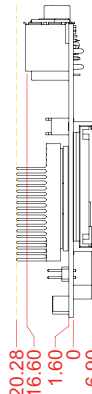
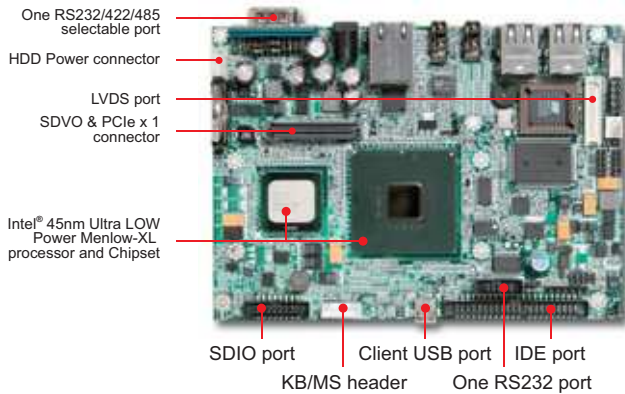


# PEB-2738I

Intel® 45nm Ultra Low Power Menlow-XL processor and chipset based 3.5" embedded board with dual display, Audio, USB and SDIO

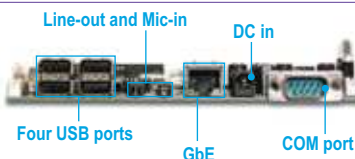


PEB-2738I takes advantage of the latest Intel® Atom™ technologies. It supports DDR2 SDRAM, one gigabit ethernet and one expansion Multi function connector. Based on Intel® Atom™ solutions, the fanless PEB-2738I executes high performance with low power dissipation. Therefore, it's applied to Panel PC, Kiosk, Medical, and industrial automation.

## FEATURES

- Intel® Atom™ processor Z500PT series and System Controller Hub US15WPT
- One 200-pin SODIMM supports DDR2 SDRAM up to 2GB
- Dual independent display: SDVO (by VGA/ DVI/LVDS daughter card) and 24-bit LVDS
- One Gigabit Ethernet
- Trusted Platform Module (TPM) ready (addition to board is optional)
- Customization (Extension card): BTB connector with SDVO/USB/PCIe x1 signal and SDIO pin header
- Storage: One PATA/One CompactFlash/One USB Flash/One SDIO
- 12V DC input

## REAR/IO



## ORDERING GUIDE

AB1-3278	PEB-2738I-1100.Intel Atom Z510PT 1.1G on Board.EBC.w/SDVO/COM/Audio/USB/LAN/DC-12V
AB1-3406	PEB-2738I-1330.Intel Atom Z520PT 1.33G on Board.EBC.w/SDVO/COM/Audio/USB/LAN/DC-12V

## PACKING LIST

One PEB-2738I Main Board
One 2-in-1 Heatsink
One Installation CD
One IDE Cable

## GENERAL

Processor	- Intel® Atom™ Processor Z510PT (1.1GHz, 2.2W)/Z520PT (1.33GHz, 2.2W) with 512K L2 Cache in FCBGA437 package - FSB: 400/533MHz - Supports Enhanced Intel SpeedStep®, Thermal Monitoring Technology
Chipset	- Intel® System Controller Hub US15WPT (2.3W)
BIOS	AMI Core 8 BIOS
Memory	- Supports up to 2GB DDR2 400/533 MHz SDRAM on one 200-pin SODIMM socket
Storage Devices	- 1x IDE connector supports Ultra DMA100/66/33 MB/s - 1x CompactFlash socket supports Ultra DMA100/66/33 MB/s - 1x SDIO box header supports 24MHz (SDIO Revision 1.1)
Watchdog Timer	- Programmable via S/W from 1 sec. to 255 sec.
Hardware Monitoring	- Temperature (CPU & System) - Voltage (CPU Vcore, VBAT, 5VSB, 12V, 5V, 3.3V)
Expansion Interface	1x Multi function connector supports SDVO/PCI Express x1/USB

## I/O INTERFACE

Super I/O	Winbond W83627DHG
Audio	- Intel® US15WPT built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC662-GR HDA codec, 5.1 channels - Audio Jacks on rear I/O with Line-out and Mic-in
Ethernet	- Intel® WG82574IT Gigabit Ethernet controller - 1x RJ45 connector on rear I/O
Serial Port	- 1x RS232/422/485 port with DB9 connector on rear I/O - 1x RS232 with on board pin header
USB	- 4x USB 2.0 ports on rear I/O - 2x USB 2.0 ports on board with pitch 2.0 header - 1x Client USB port on board edge - 480 Mb/s bus comprehends the high-speed/full-speed/low-speed data ranges
Keyboard & Mouse	1x PS/2 Keyboard & Mouse on board header
GPIO	On board programmable 8-bit Digital I/Os

## DISPLAY

Graphic Controller	Intel® System Controller Hub US15WPT integrated Intel® GMA 500 supports full hardware acceleration of video decode standards, such H.264, MPEG2, MPEG4 and WMV9
Display Interface	LVDS: Single channel 24-bit LVDS

## Mechanical & Environment

Dimension	146(L) x 102(W)mm; 5.75"(L) x 4.02"(W)
Power Supply	DC-12V input
Environment	- Operation Temperature: -40°C to 80°C - Storage Temperature: -40°C to 80°C - Relative Humidity: 5% to 95%, non-condensing
MTBF	Over 120,000 hours at 40°C

