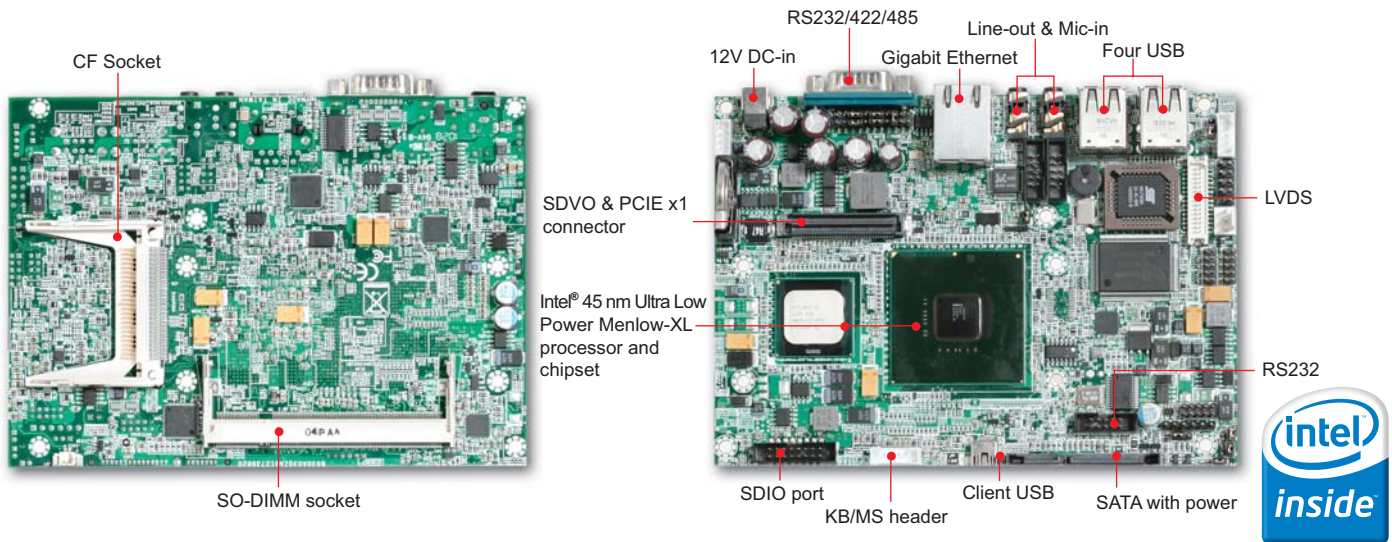# PEB-2739I

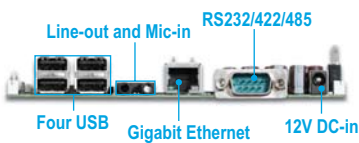**Intel® 45nm Ultra Low Power Menlow-XL processor and chipset based ECX embedded board with dual display, Audio, USB, SDIO and SATA**

CF Socket

SO-DIMM socket

RS232/422/485

12V DC-in

Gigabit Ethernet

Line-out & Mic-in

Four USB

SDVO & PCIE x1 connector

Intel® 45 nm Ultra Low Power Menlow-XL processor and chipset

LVDS

RS232

SDIO port

KB/MS header

Client USB

SATA with power

intel inside™

FEATURES

- Intel® Atom™ processor Z500PT series and System Controller Hub US15WPT
- One 200-pin SO-DIMM support DDR2 SDRAM up to 2GB
- Dual independent display: SDVO(by VGA/DVI/LVDS daughter card) and 24bit LVDS
- One Gigabit Ethernet
- TPM (Trusted Platform Module) could be added on board (optional)
- Customization (Extension card): BTB connector with SDVO/USB/PCI-E x1 signal and SDIO pin header
- Storage: One SATA / One CompactFlash / One USB Flash / One SDIO
- 12V DC input

REAR/IO

Line-out and Mic-in

RS232/422/485

Four USB

Gigabit Ethernet

12V DC-in

PACKING LIST

- CPU heatsink   x1
- Utility CD   x1
- SATA Cable   x1

ORDERING GUIDE

Standard	PEB-2739IVA-1100 3.5" ESB based on Intel® Atom™ wide temperature 1.1G processor with LVDS/SDVO, COM, USB and Audio
Optional	PEB-2739IVA-1300 3.5" ESB based on Intel® Atom™ wide temperature 1.3G processor with LVDS/SDVO, COM, USB and Audio

OPTIONAL

Part No.	QTY	Description
AB9-3050Z	1	SDIO daughter board
AB9-3049Z	1	VGA daughter board

SYSTEM

CPU	Intel® Atom™ processor Z510PT / Z520PT
Chipset	Intel® System Controller Hub US15WPT
System Memory	One 200-pin SO-DIMM support DDR2 533 up to 2GB
BIOS	AMI
SSD	Type II Compact Flash socket
Storage Devices	One SATA port with power support
Watchdog Timer	Programmable via S/W from 1sec. to 255min.
Expansion Interface	- SDVO/PCI-E x1/USB signals on one connector for daughter board - SDIO header
Hardware Monitoring	- Temperature (CPU and System) - Voltage (CPU Vcore, VBAT, 5VSB, 12V, 5V, 3.3V)
Power Requirement	DC 12V input
Dimension	102(W) x146(L) mm; 4.01"(W) x 5.7"(L)
Environment	Operation temperature: -40~80°C Storage temperature: -40~80°C Operation humidity: 5~95%, non-condensing

I/O

MIO	SATA x1, One RS232/422/485 selectable at rear IO and one RS232 internal, SDIO pin header x1, SDVO connector x1, Client USB port x1
Ethernet	One RJ45 Gigabit Ethernet (Intel® 82574IT)
Audio	Line-out and Mic-in
USB	USB 2.0 x 4 & USB 2.0 with header x2
Keyboard & Mouse	One K/B & M/S pin header

DISPLAY

Graphic Controller	Intel® System Control Hub US15WPT integrated graphics
Graphic Memory	Intel® GMA 500
Display Interface	24bit LVDS / SDVO interface