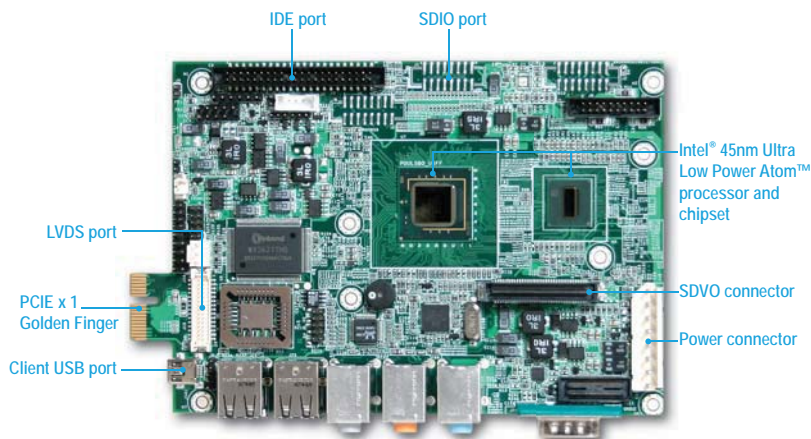


# PEB-2736

Intel® 45nm Ultra Low Power Atom™ processor based ECX embedded board with dual display, Audio, USB and SDIO



## FEATURES

- Intel® Atom™ processor Z510/Z530 and System Controller Hub US15W (TDP ≤ 5W)
- One 200-pin SO-DIMM supports DDR2 SDRAM up to 2GB
- One Type II Compact Flash & one IDE connector
- Dual independent display: SDVO and 24bit LVDS
- SDVO Connector support VGA/DVI/LVDS daughter card
- Multi-stream audio and CH5.1 supported
- UDM (USB-Disk Module) could be added on board

PEB-2736 takes advantage of the latest Intel® Atom™ technologies. It supports dual display by LVDS and the SDVO connector. The modular SDVO and SDIO board architecture is easy for customization to meet customer's time to market and proprietary requirement. Base on leading

Intel® Atom™ solution, PEB-2736 is a compact and low power dissipation board for in-vehicle, Mini POS, Medical, Gaming and Digital Signage applications.

### Main Board PEB-2736

<b>CPU</b>	Intel® Atom™ processor Z510/Z530
<b>FSB</b>	400/533MHz
<b>Chipset</b>	Intel® System Controller Hub US15W
<b>System Memory</b>	One 200-pin SO-DIMM support DDR2 400/533 SDRAM up to 2GB
<b>Storage</b>	One CompactFlash socket and one 44-pin IDE connector
<b>Watchdog Timer</b>	Programmable via S/W from 1sec. to 255min.
<b>H/W Monitor</b>	FAN Speed (System), Temperature (CPU and System), Voltage
<b>GPIO</b>	Onboard programmable 8-bit Digital I/Os
<b>Expansion</b>	- SDVO/PCIEx1/USB signals on one connector for daughter board - PCI-Express x1 golden finger on board edge for optional proprietary peripheral card
<b>Power Input</b>	ATX compliant power

### On Board I/O

<b>Display-Graphic Controller</b>	Intel® System Controller Hub US15W Integrated graphics
<b>USB</b>	- Two USB 2.0 ports - USB client type B connector
<b>COM</b>	One RS-232 serial port
<b>SDIO</b>	One pin header for SDIO daughter card
<b>Others</b>	One 8bit GPIO pin header, one pin header for Front Panel I/O

### Rear I/O

<b>COM</b>	One RS-232 port
<b>USB</b>	Four USB 2.0 ports
<b>Audio</b>	High definition audio CH5.1

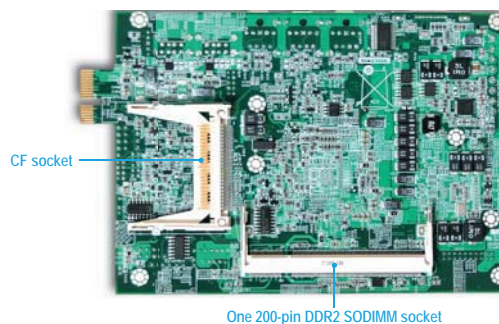
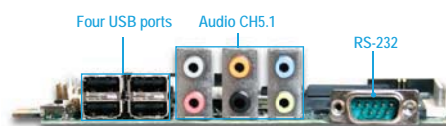
### Display

<b>Graphic Controller</b>	Intel® System Controller Hub US15W integrated GMA 500 graphics device
<b>Multi Display</b>	LVDS / SDVO

### Mechanical & Environment

<b>Operation Temperature</b>	0°C-60°C (-40°C-85°C by request)
<b>Storage Temperature</b>	-20°C-80°C
<b>Operating Humidity</b>	5-95% non-condensing
<b>Dimension</b>	146mm x 105mm

## Rear I/O



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