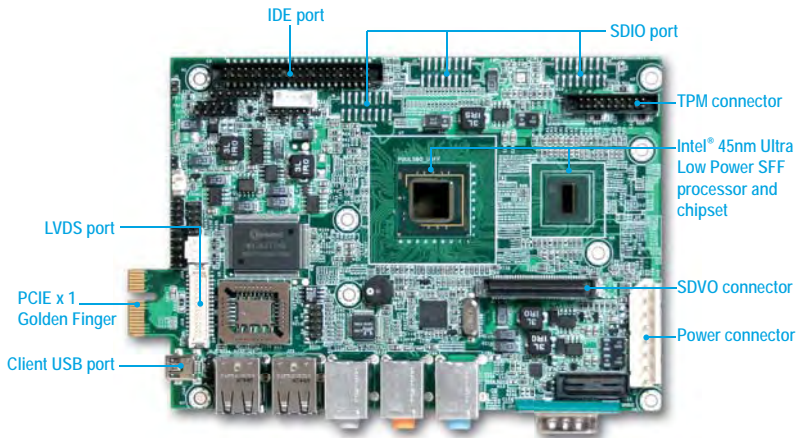


# PEB-2736

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



## FEATURES

- Intel® Atom™ processor Z510 and System Controller Hub US15W (TDPIM5W)
- One 200-pin SO-DIMM supports DDR2 SDRAM up to 1GB
- 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
- TPM (Trusted Platform Module) and 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
<b>FSB</b>	400/533MHz
<b>Chipset</b>	Intel® System Controller Hub US15W
<b>System Memory</b>	One 200-pin SO-DIMM support DDR2 533 SDRAM up to 1GB
<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>	Three pin headers for SDIO daughter cards
<b>Others</b>	One 8bit GPIO pin header, one pin header for Front Panel I/O and one TPM pin header for TPM module

### 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

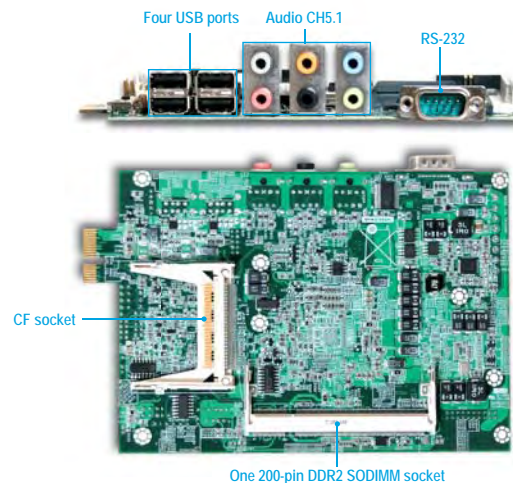
### Display

<b>Graphic Controller</b>	Intel® 45nm Ultra Low Power SFF chipset Integrated graphics
<b>Graphic Memory</b>	Intel® GMA 500
<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 Board



\* Specifications are subject to change without notice.

\* Other trademarks, logo, brands and company names are the property of their respective owners.



### Portwell, Inc. Headquarters

4F, No. 186, Jian-Yi Rd., Chung-Ho City,  
235 Taipei, Taiwan  
Tel: +886-2-77318888  
Fax: +886-2-82271109  
E-mail: info@portwell.com.tw  
http://www.portwell.com.tw

### American Portwell

Fremont Tel: +1-510-403-3399  
Norcross Tel: +1-678-969-9808  
E-mail: info@portwell.com  
http://www.portwell.com

### Portwell Japan, Inc.

Tokyo Tel: +81-3-5298-8071  
Osaka Tel: +81-6-4791-2201  
E-mail: info@portwell.co.jp  
http://www.portwell.co.jp

### Beijing Portwell

Beijing Tel: +86-10-82701616  
Shanghai Tel: +86-21-3222-0505  
Shenzhen Tel: +86-755-8621-7695  
E-mail: info@portwell.com.cn  
http://www.portwell.com.cn

### Portwell-Laxsons India

Tel: +91-22-2685-9911  
E-mail: info@portwellaxsons.com  
http://www.portwellaxsons.com

### Portwell, B.V.

Tel: +31-252-620-790  
E-mail: info@portwell.nl  
http://www.portwell.nl

### Portwell (UK) Ltd.

Tel: +44(0)1202-813816  
+44(0)1235-750760  
E-mail: info@portwell.co.uk  
http://www.portwell.co.uk