# PEM-E200VLA

**Intel® Atom™ based Type ETX module with DDR2 SDRAM, VGA, Fast Ethernet, SATA and USB**



200-pin SODIMM socket

Two SATA Ports

Intel® ICH7M

Fast Ethernet

ATOM™ N270

Intel® 945GSE

intel inside™
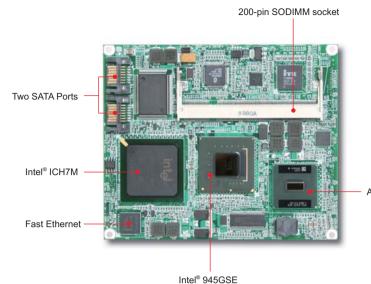
## FEATURES

- The Intel® Atom™ N270 and 945GSE platform that provides cost effective solution and technology

- The Intel® platform brings under 10W TDP solution for easy fan-less design

- SATA and IDE interface provide best cost effective functions for market

- Architecture of module and carrier boards speeds up time-to-market of tailor-made equipment

- Support one SODIMM socket and up to 2GB memory size

## ORDERING GUIDE

| Standard | PEM-E200VLA |
|---|---|
| | Intel® Atom™ N270, 945GSE platform based ETX module with DDR2 SDRAM, VGA, Fast Ethernet and USB |

## GENERAL

| | |
|---|---|
| Processor | CPU & Package: Intel® Atom™ N270 1.6GHz in FCBGA package<br>FSB: 533MHz |
| Chipset/Core Logic | Intel® 945GSE and ICH7M |
| System Memory | Up to 2GB DDR2 533 SDRAM on one 200-pin SODIMM socket |
| BIOS | Award BIOS |
| Storage Devices | EIDE: Support two EIDE channel with Ultra DMA 100/66/33<br>SATA: Support two SATA 150 drives |
| Solid State Disk | N/A |
| Watchdog Timer | Programmable via software from 1 sec. to 255 min. |
| Expansion Interface | - Two IDE channels<br>- Four PCI devices<br>- ISA Bus<br>- Two COM Ports<br>- One Printer Port<br>- PS/2 Keyboard and Mouse<br>- Line Out, Line In and MIC |
| Hardware Monitoring | CPU temperature |
| Dimension | Dimension : 114(L) x 95(W) mm; 4.5"(L) x 3.7" (W) |
| Environment | Operating Temperature: 0 to 60°C<br>Storage Temperature: -20 to 80°C<br>Relative Humidity: 5% to 90%, non-condensing |

## I/O

| | |
|---|---|
| MIO | Two serial ports (TTL Level) |
| IrDA | Yes |
| Ethernet | One Fast Ethernet Controller (Realtek RTL8102EL) |
| Audio | One HDA Audio Codec |
| USB | Four USB ports |
| Keyboard & Mouse | PS/2 Keyboard and Mouse |

## DISPLAY

| | |
|---|---|
| Graphic Controller | Intel® 945GSE integrated Graphics Media Accelerator (Intel® GMA 950) |
| Graphic Memory | Dynamic share system memory up to 224MB (Intel® DVMT 3.0) or static share system memory up to 128MB |
| Display Interface | - Support dual VGA (2nd supported by Chrontel CH7317A), LVDS and TV-out (optional)<br>- CRT display resolution up to 2048x1536@85Hz refresh |