



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
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GENERAL

Processor	CPU & Package: Intel® Atom™ N270 1.6GHz in FCBGA package 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 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 - Four PCI devices - ISA Bus - Two COM Ports - One Printer Port - PS/2 Keyboard and Mouse - 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 Storage Temperature: -20 to 80°C 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) - CRT display resolution up to 2048x1536@85Hz refresh