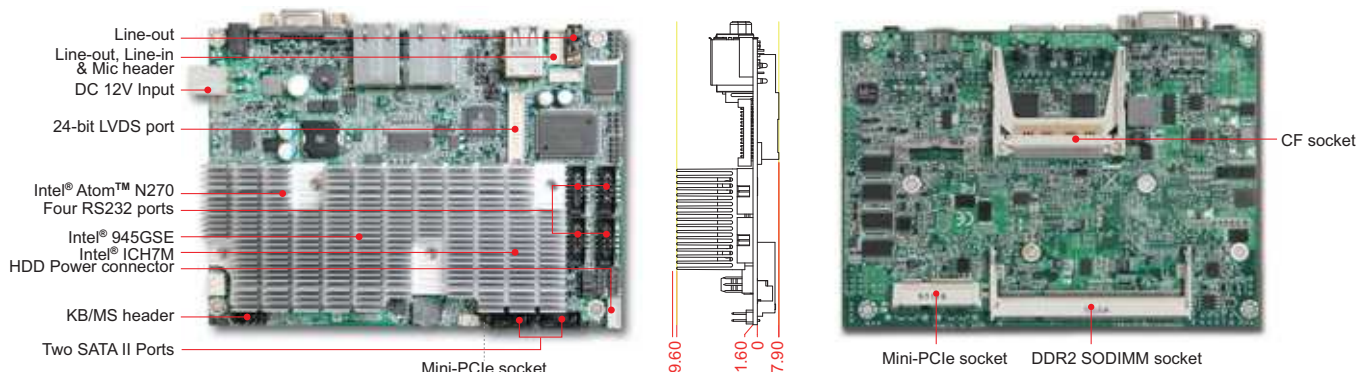




PEB-2131VG2A

3.5" Embedded size, based on Intel® Atom™ N270 Processor with DDR2 SDRAM, Dual Display by VGA/LVDS, Gigabit Ethernet, Four Power COM Ports and Audio

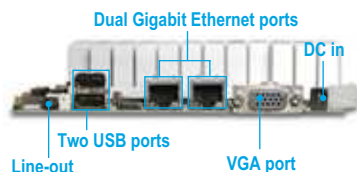


PEB-2131VG2A takes advantage of the latest Intel® Atom™ technologies. It supports DDR2 SDRAM, dual gigabit ethernet and one expansion Mini PCI-Express x1 socket. Based on the leading Intel® Atom™ solution, PEB-213VG2A has low power dissipation with high performance necessary for fanless models making it perfect for applications such as the Panel PCs and Kiosks as well as in Industrial Automation.

FEATURES

- Intel® Atom™ N270 and 945GSE platform that provides cost effective solution
- SATA and CF interfaces provide cost efficient storage
- Supports one SODIMM socket and up to 2GB memory size
- Mini-PCI Express and power COM ports provide flexibility
- Dual Gigabit Ethernet (10/100/1G) with RJ-45 connector
- High Definition audio with 2-channel amplifier@6W
- Low profile rear I/O supports thin client application

REAR/I/O



ORDERING GUIDE

AB1-3324	PEB-2131VG2A.ESB.N270.945GSE.ICH7.w/DDRII SDRAM/VGA/LVDS/Dual GbE/Audio
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PACKING LIST

One PEB-2131VG2A 3.5" Main Board
One Installation CD
One SATA Cable
One SATA Power Cable

GENERAL

Processor	- Intel® Atom™ N270 processor 1.6 GHz (2.5W) and 512KB Cache in FC-BGA package - FSB 533 MHz - Supports Intel® Hyper-Threading and SpeedStep Technology
Chipset	- Intel® 945GSE Graphics and Memory Controller Hub (6W), Intel® Gen 3.5 Integrated Graphics Engine. - Intel® ICH7M (2.5W), Intel® AHCI Technology.
BIOS	Phoenix Award BIOS
Memory	Supports up to 2GB DDR2 400/533 MHz SDRAM on one 200-pin SODIMM socket
Storage Devices	- 2x SATA II support 3.0Gb/s data transfer rate - 1x CompactFlash socket supports Ultra DMA100/66/33 MB/s
Watchdog Timer	Programmable via S/W from 1 sec. to 255 sec.
Hardware Monitoring	- Temperature (CPU & System) - Voltage (CPU Vcore, VBAT, 5VSB, 12V, 5V, 3.3V)
Expansion Interface	1x Mini-PCI Express socket (Gen 1, 2.5 GT/s)

I/O INTERFACE

Super I/O	Winbond W83627UHG
Audio	- Intel® ICH7M built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC662-GR HDA codec, 5.1 channels - Audio Jack on rear I/O with Line-out - Audio on board box header with Line-in, Line-out and Mic-in
Ethernet	- Realtek RTL8111C-VC-GR Gigabit Ethernet controller - 2x RJ45 connectors on rear I/O
Serial Port	4x RS232 ports on board pin header
USB	- 2x USB 2.0 ports on rear I/O - 5x USB 2.0 ports on board with pitch 2.0 header - 480 Mb/s bus comprehends the high-speed/full-speed/low-speed data ranges
Keyboard & Mouse	PS/2 Keyboard & Mouse with on board pin header
GPIO	On board programmable 8-bit Digital I/Os

DISPLAY

Graphic Controller	- Intel® 945GSE integrated Intel® GMA 950 supports dynamic video memory technology (Intel® DVMT 3.0), Microsoft DirectX 9.1 operating system - Chrontek CH7308B-TF SDVO to LVDS Transmitter
Display Interface	- LVDS: Dual channel 24-bit LVDS, resolution up to 1600x1200 (UXGA) - CRT: One DB-15 connector on rear I/O, resolution up to 2048x1536 (QXGA)

Mechanical & Environment

Dimension	146(L) x 102(W)mm; 5.75"(L) x 4.02"(W)
Power Supply	DC-12V input
Environment	- Operation Temperature: 0°C to 60°C - Storage Temperature: -20°C to 80°C - Relative Humidity: 5% to 95%, non-condensing
MTBF	Over 120,000 hours at 40°C

