



## Features

- Onboard Intel® Atom™ D525 BGA Processor
- One 204-Pin SO-DIMM Socket Supports Up to 4GB DDR3 1066/1333 SDRAM
- Dual View, Single-channel LVDS, VGA
- Dual Intel® 82574L Gigabit Ethernet
- 1 x CF, 1 x Mini PCIe Card
- 2 x SATA, 2 x COM, 6 x USB, 16-bit GPIO
- Optional AUX-035 for Dual-channel LVDS

CH1

Embedded Computing-SBC



## Specifications

### System

<b>Processor</b>	Intel® Atom™ D525 2-Core 1.8GHz Processor
<b>System Chipset</b>	Intel® ICH8-M Chipset
<b>System Memory</b>	1 x 204-Pin DDR3 1066/1333MHz SO-DIMM, up to 4 GB (Due to CPU spec limitation, the data transfer rate of DDR3 will be limited to 800MT/s only)
<b>I/O Chip</b>	Nuvoton W83627DHG-P
<b>BIOS</b>	AMI 8Mbit SPI BIOS
<b>Watchdog Timer</b>	H/W Reset: 1sec.~255min. and 1sec. or 1min./step

### Expansion & Storage

<b>Expansion</b>	1 x Mini PCIe Supports mSATA
<b>Storage</b>	1 x CompactFlash Type I/II Socket

### Touch Screen

<b>Built-in Touch controller(optional)</b>	Chipset: PenMount 6000 Touch Screen Interface: With 9-pin 2.0mm Box Header (Can be Selected to Support 4/5/8-wire Touch Screen)
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### I/O

<b>USB</b>	6 x USB 2.0
<b>SATA</b>	2 x SATA II
<b>COM Port</b>	1 x RS-232/422/485, 1 x RS-232
<b>DIO</b>	1 x 16bit GPIO
<b>MIO</b>	1 x LPC, 1 x SPI

### Display

<b>Chipset</b>	Intel® Pineview Integrated Graphics Supports dual display
<b>Resolution</b>	VGA: Max. resolution 2048x1536 @ 60Hz CRT + LVDS Single-channel 18-bit LVDS, Dual-channel 18/24-bit LVDS (Optional via AUX-035)

### Audio

<b>Chipset</b>	Realtek ALC888, supports 5.1-CH
<b>Audio Interface</b>	Mic-In, Line-In and Line-Out

### Ethernet

<b>Chipset</b>	2 x Intel® 82574L
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45

### Mechanical & Environmental

<b>Power Requirement</b>	+12V ~ +26V
<b>Power Type</b>	AT/ATX
<b>Operating Temperature</b>	0°C ~ 60°C (32°F ~ 140°F)
<b>Storage Temperature</b>	-40 ~ 75°C (-40 ~ 167°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Size (L x W)</b>	5.7" x 4" (146mm x 101mm)
<b>Weight</b>	0.44lbs (0.2kg)

### Certification & Software Support

<b>Certification</b>	CE, FCC Class B
<b>OS Information</b>	Win XP, Win 2000, Linux, Win CE

## Ordering Information

ECM-PNV-C2R  
3.5" W/Atom D525/ICH8M/1x18-bit/C2R  
ECM-PNV-C2TR  
3.5" W/Atom D525/ICH8M/1x18-bit/Touch C2  
ECM-PNV-C2SR  
3.5" W/Atom D525/ICH8M/1x18-bit/HSK/C2R