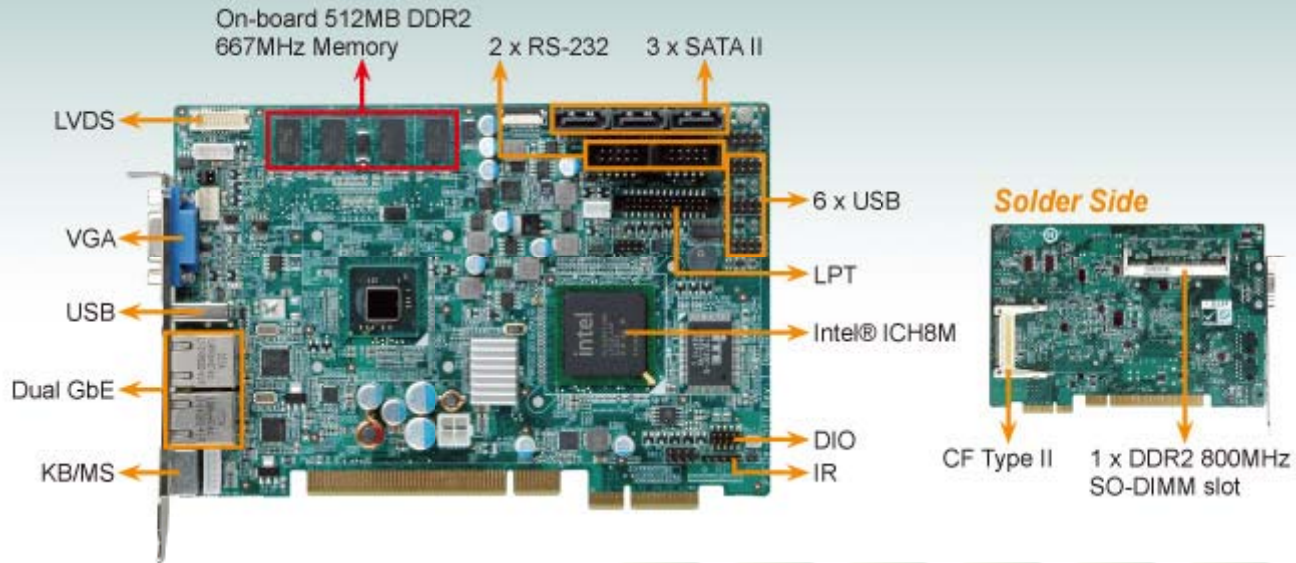


PIC0e-PV-D510

Half-size PCIe CPU Card with Intel® Atom™ D510
1.66GHz/1MB L2, 512MB Memory on board, VGA/
LVDS, Dual Intel GbE, USB2.0 and SATA II, RoHS



➔ Features

➔ Specifications

➔ Ordering Information

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Intel New Platform

Embedded Intel® Atom™ Solution

Feature	Intel® Celeron® M Processor	Intel® Atom™ Processor N270	Dual Core Intel® Atom™ Processor D510
Frequency	1.0GHz	1.6GHz	1.66GHz
Cores	1 Core	1 Core	2 Cores
L2 Cache	Zero	512K	1M (512K x 2)
Graphic Core	-	GMA950	GMA3150
LVDS support	Dual Channel 18/24bits	Dual Channel 18bits	Single Channel 18bits
SATA	2 x SATA by VIA VT6421A	2 SATA	3 SATA II
Memory Support	DDR 200/266MHz	DDR2 400/533MHz	DDR2 667/800MHz
Chipset Support	852GM + ICH4	945GSE+ICH7M	ICH8M
iEi Solution	PICO-8522	PIC0e-945GSE	PIC0e-PV-D510

2-Chip solution

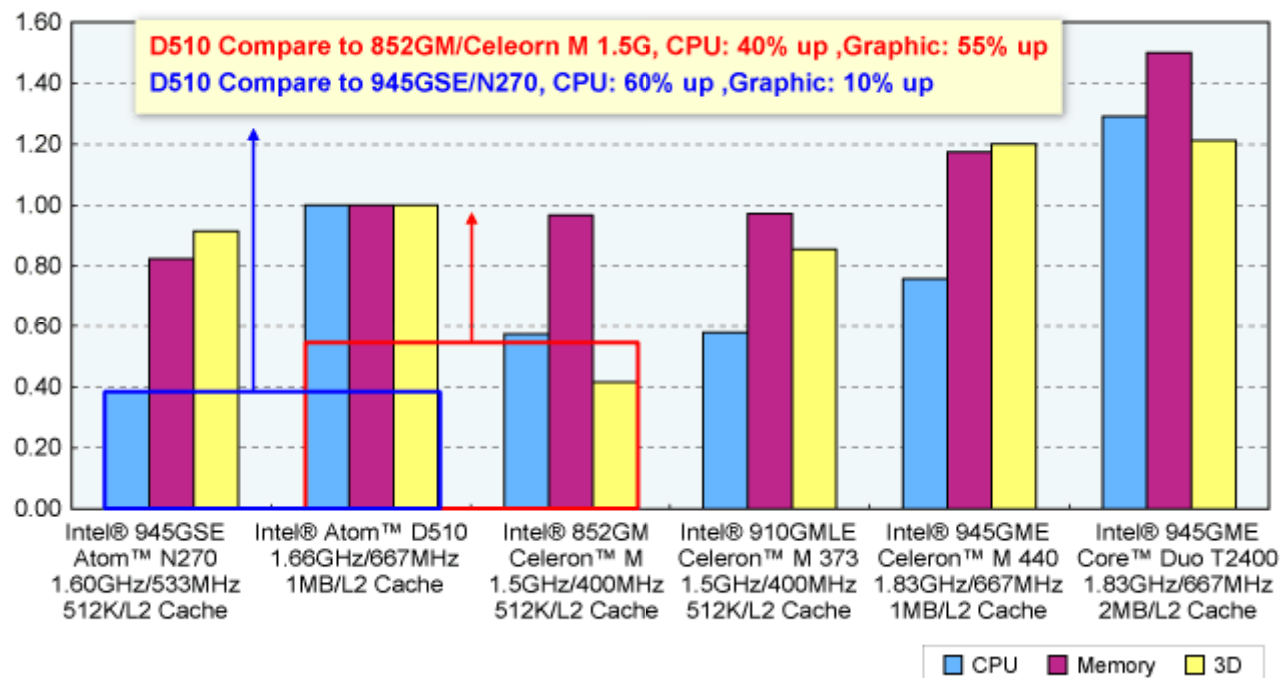




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High Performance

Intel® Dual Core Atom™ D510/1.66GHz Performance comparison Chart



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Various backplane and chassis

Selection Guide

□ PAC series wall-mount Chassis □ 4U Rack-mount Chassis

		HPE-3S1	HPE-3S2	HPE-4S1	HPE-4S2	HPE-5S1	HPE-5S2
Total Slot		3	3	4	4	5	5
Expansion Slots	PCI	2	1	3	2	4	3
	PCIe	x4	1		1		1
		x1					
Chassis		PR-1300G PAC-54G	PR-1300G PAC-54G	PAC-42GH PAC-400G	PAC-42GH PAC-400G	PR-1500G RACK-500G	PR-1500G RACK-500G

		HPE-5S3	HPE-6S1	HPXE-6S1	HPE-6S2	HPE-7S1	HPE-8S
Chassis							

Total Slot		5	6	6	6	7	7
Expansion Slots	PCI		2	4	2	3	4
	PCIe	x4		1	3		
		x1	2			2	2
Chassis		PR-1500G RACK-500G				PAC-700G	RACK-3400G

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Features

1. PCIe CPU card supports four PCIe x1 or one PCIe x4 and four PCI expansions
2. Intel® Atom™ dual core processor D510 at 1.66GHz core speed with a 1MB L2 Cache
3. 512MB of 667 MHz DDR2 SDRAM on board and one expansion SO-DIMM slot support
4. Support VGA and 18-bit single-channel LVDS with dual-display support
5. I/O includes, two RS-232, seven USB 2.0 and three SATA II
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

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Specifications

- **CPU**

On-board 1.66GHz Intel® Atom™ D510 processor with 1MB L2 Cache

- **System Chipset**

Intel® ICH8M

- **BIOS**

AMI Flash BIOS

- **Memory**

1x 200-pin 667/800MHz DDR2 SDRAM SO-DIMM supported (max. 2GB)

On-board 512MB 667MHz DDR2 memory

- **Graphic**

GMA3150

- **Ethernet**

Intel® GbE Phy 82567V + PCIe GbE 82583V

- **I/O Interfaces**

2 x RS-232

1 x LPT

3 x SATA II

1 x PS/2 for KB/MS

1 x CF Type II

1 x 6-pin wafer header for KB/MS

7 x USB2.0 (six by header, one on rear side)

- **Digital I/O**

8-bit digital I/O (4-bit input, 4-bit output)

- **Super IO**

ITE IT8718

- **Display Output**

Analog CRT: up to 2048x1536

Support for CRT hot plug

Single-channel 18-bit LVDS support up to XGA (1024x768) & WXGA (1366x768) resolution

- **Expansion**

Four PCI

Four PCI Express x1 or one PCI Express x4

- **Audio**

Support 7.1 channel HD Audio by IEI AC-KIT883HD kit

- **Watchdog Timer**

Software Programmable support 1~255 sec. System reset

- **Power Consumption**

5V@4.55A, 12V@0.46A (Intel® Atom™ D510 1.66GHz CPU, 1GB 667MHz DDR2)

- **Power Supply**

5V/12V, AT/ATX support

- **Fan connector**

1 x 4-pin fan connector

- **Temperature**

Operation: 0°C ~ 60°C (32°F ~ 140°F)

- **Humidity**

Operation: 5% ~95%, non-condensing

- **Diemensions**

185 mm x 122 mm

ITE IT8718

- **Infrared Interface**

1 x 5-pin header

- **Weight**

GW: 1000g / NW: 260g

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Ordering Information

Part No.	Description
PIC0e-PV-D510-R10	Half-size PCIe CPU Card with Intel® Atom™ D510 1.66GHz/1MB L2, 512MB Memory on board, VGA/LVDS, Dual Intel GbE, USB2.0 and SATA II, RoHS
AC-KIT883HD-R10	7.1 channel HD Audio kit with Realtek ALC883 codec and dual audio streams support
19800-000075-RS	KB/MS cable with bracket
32102-000100-100-RS 32102-000100-200-RS	SATA power cable
32200-015100-RS	LPT cable

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Packing List

1 x PIC0e-PV-D510 Single Board Computer	1 x Dual RS-232 cable (P/N:19800-000051-RS)
3 x SATA cable (P/N:32000-0628000-RS)	1 x USB cable (P/N: CB-USB02-RS)
1 x KB/MS Y cable (P/N: 32000-133200-RS)	1 x Mini jumper pack
1 x QIG	1 x Utility CD