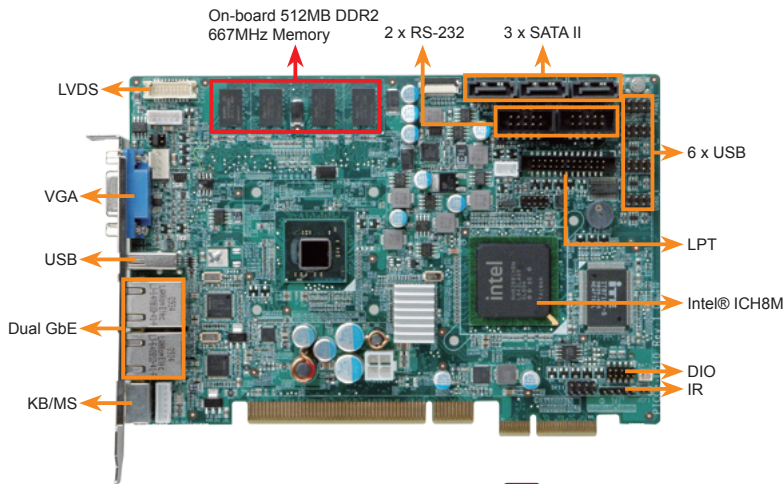


# PIC0e-PV-D510

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



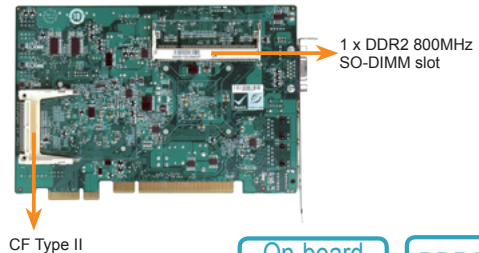
One Key Recovery  
IEI symantec.

## 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
- ◆ Infrared Interface  
1 x 5-pin header
- ◆ 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
- ◆ Dimensions  
185 mm x 122 mm
- ◆ Weight  
GW: 1000g / NW: 260g

Feature	Intel® Atom™ Processor N270	Intel® Atom™ Processor D510
Microarchitecture	Intel® Atom™ Microarchitecture	
Frequency	1.66GHz	1.66GHz
Cores	1 Core	2 Cores
L2 Cache	512K	1M (512K x 2)
LVDS support	18-bit Dual-channel	18-bit single-channel
SATA	2 x SATA 1.5GB/s	3 x SATA 3GB/s
Memory Support	DDR2 400/533MHz	DDR2 667/800MHz
Chipset Support	945GSE+ICH7M	ICH8M
IEI Solution	PIC0e-945GSE	PIC0e-PV-D510

### Solder Side



## 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

## 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

## 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	SATA power cable
32102-000100-200-RS	
32200-015100-RS	LPT cable