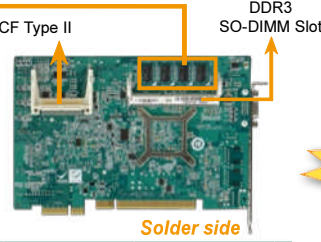
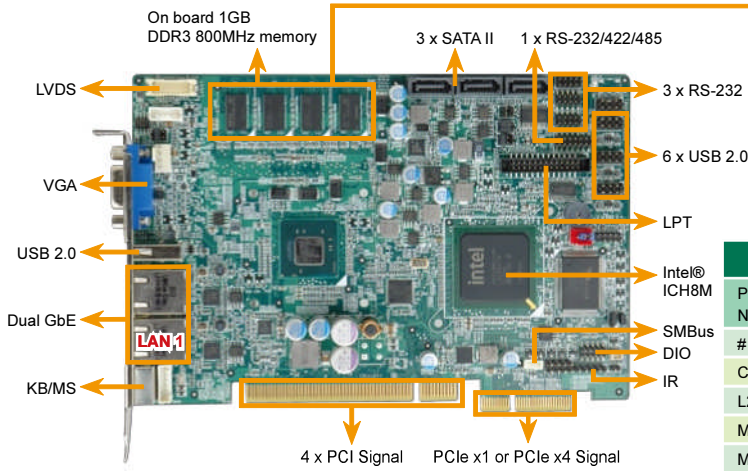


PIC0e-PV- D4251 N4551 D5251

Half-size PCIe CPU Card with Intel® Atom™ D425/N455/D525, DDR3, 1 GB Memory on board, VGA/LVDS, Dual PCIe GbE, USB 2.0, SATA II, Audio and RoHS



New

**Dual Core CPU
DDR3 Memory**

Specifications

- ◆ CPU
 - Intel® Atom™ Dual Core D525 Processor (1.80GHz with 1MB L2 cache)
 - Intel® Atom™ Single Core N455 Processor (1.66GHz with 512K L2 cache)
 - Intel® Atom™ Single Core D425 Processor (1.80GHz with 512K L2 cache)
- ◆ System Chipset
 - ICH8M
- ◆ BIOS
 - UEFI BIOS
- ◆ Memory
 - One 204-pin 800MHz DDR3 SDRAM SO-DIMM supported (System max. 2GB)
 - On-board 1 GB DDR3 800 MHz memory
- ◆ Graphic Engine
 - GMA 3150
 - Gen3.5 DX9, 400MHz for D525/D425
 - Gen3.5 DX9, 200MHz for N455
- ◆ Ethernet
 - Dual PCIe GbE by Realtek RT8111E, LAN1 with ASF2.0 support
- ◆ Display Interface
 - Analog CRT up to 2048x1536 for D525/D425, 1400x1050 for N455
 - Support CRT hot plug
 - Single Channel 18-bit LVDS support resolution up to XGA (1024x768) & WXGA (1366x768)
- ◆ I/O Interfaces
 - 3 x RS-232 1 x RS-232/422/485 with Auto Flow control
 - 1 x LPT 1 x PS/2 for KB/MS
 - 1 x CF Type II 1 x 6-pin wafer header for KB/MS
 - 3 x SATA II 7 x USB 2.0 (6 by header, 1 on rear side)
- ◆ Digital I/O
 - 8-bit digital I/O, 4-bit input / 4-bit output
- ◆ Super IO
 - Fintek F81865
- ◆ Infrared Interface
 - 1 x 5-pin header
- ◆ TPM (Optional)
 - On board INFINEON SLB9635TT1.2
- ◆ SMBus
 - 1 x 4-pin wafer connector
- ◆ Fan Connector
 - 1 x 4-pin Fan Connector
- ◆ Expansion
 - 4 x PCI
 - 4 x PCIe x1 or 1 x PCIe x4
- ◆ Audio
 - Support 7.1 channel HD audio by IEI AC-KIT-888HD-R10 kit
- ◆ Watchdog Timer
 - Software programmable support 1~255 sec. system reset
- ◆ Power Consumption
 - 5V@3.38A, 12V@0.54A (Intel® Dual Core Atom™ D525 1.80GHz with 1GB DDR3 800Mhz Memory on board)
 - 5V@3.28A, 12V@0.43A (Intel® Single Core Atom™ D425 1.80GHz with 1GB DDR3 800Mhz Memory on board)
 - 5V@3.13A, 12V@0.32A (Intel® Single Core Atom™ N455 1.66GHz with 1GB DDR3 800Mhz Memory on board)
- ◆ Power Supply
 - 5V/12V, AT/ATX support
- ◆ Temperature
 - 20°C ~ 60°C with free air, -20°C ~ 70°C with force air for D525 processor
 - 20°C ~ 65°C with free air, -20°C ~ 70°C with force air for D425 processor
 - 20°C ~ 70°C with free air, -20°C ~ 75°C with force air for N455 processor
- ◆ Humidity
 - Operation: 5% ~ 95%, non-condensing
- ◆ Dimensions
 - 185 mm x 122 mm
- ◆ Weight
 - GW: 1000g / NW: 250g

Intel® Atom™ Comparison Table for PIC0e-PV SKUs

Processor Name	Intel® Atom™ D525	Intel® Atom™ N455	Intel® Atom™ D425	Intel® Atom™ D510
# of Cores	2	1	1	2
Clock Speed	1.80 GHz	1.66 GHz	1.80 GHz	1.66 GHz
L2 Cache	1 MB	512 KB	512 KB	1 MB
Max TDP	13 W	6.5 W	10 W	13 W
Memory	DDR3 800MHz	DDR3 800MHz	DDR3 800MHz	DDR2 667/800

On-board
memory

DDR 3
800

Dual
Display

SERIAL
ATA II

USB
2.0

Features

1. PCIe CPU card supports four PCIe x1 or one PCIe x4 and four PCI expansions
2. Intel® Atom™ D525/ D425/ N455 processor
3. 1GB of DDR3 800MHz 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 include three RS-232, one RS-232/422/485, 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-D4251/N4551/D5251 single board computer	
1 x Dual RS-232 cable (P/N: 19800-000112-RS)	
3 x SATA cable (P/N: 32000-0628000-RS)	
1 x KB/MS Y cable (P/N: 32006-000300-100-RS)	
1 x USB cable (P/N: CB-USB02-RS)	1 x Utility CD
1 x Mini jumper pack	1 x QIG

Ordering Information

Part No.	Description
PIC0e-PV-D5251-R10	Half-size PCIe CPU Card with Intel® Atom™ Dual Core D525 1.80GHz/1MB L2, 1GB Memory on board, VGA/LVDS, Dual PCIe GbE, USB 2.0, SATA II and audio, RoHS
PIC0e-PV-D5251T-R10	Half-size PCIe CPU Card with Intel® Atom™ Dual Core D525 1.80GHz/1MB L2, 1GB Memory on board, VGA/LVDS, Dual PCIe GbE, USB 2.0, SATA II and audio, TPM, RoHS
PIC0e-PV-N4551-R10	Half-size PCIe CPU Card with Intel® Atom™ Single Core N455 1.66GHz/512K L2, 1GB Memory on board, VGA/LVDS, Dual PCIe GbE, USB 2.0, SATA II and audio, RoHS
PIC0e-PV-N4551T-R10	Half-size PCIe CPU Card with Intel® Atom™ Single Core N455 1.66GHz/512K L2, 1GB Memory on board, VGA/LVDS, Dual PCIe GbE, USB 2.0, SATA II and audio, TPM, RoHS
PIC0e-PV-D4251-R10	Half-size PCIe CPU Card with Intel® Atom™ Single Core D425 1.80GHz/512K L2, 1GB Memory on board, VGA/LVDS, Dual PCIe GbE, USB 2.0, SATA II and audio, RoHS
PIC0e-PV-D4251T-R10	Half-size PCIe CPU Card with Intel® Atom™ Single Core D425 1.80GHz/512K L2, 1GB Memory on board, VGA/LVDS, Dual PCIe GbE, USB 2.0, SATA II and audio, TPM, RoHS
AC-KIT-888HD-R10	7.1 channel HD Audio kit with Realtek ALC888 support dual audio streams
19800-000075-RS	KB/MS cable with bracket
32102-000100-200-RS	SATA power cable
32200-015100-RS	LPT cable
19FTS00032100-000001-RS	CPU fan

1
Industrial
Computing
Solutions

2
Video
Capture
Solutions

3
Embedded
Computing
Solutions

4
Industrial Data
Collector and
Controller

5
Panel
Solutions
Introduction

6
ORing
Network
Communication

7
Power Supply/
Peripherals