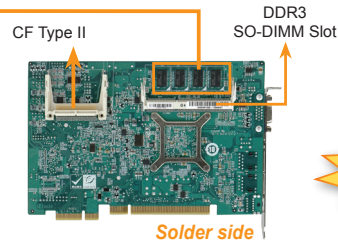
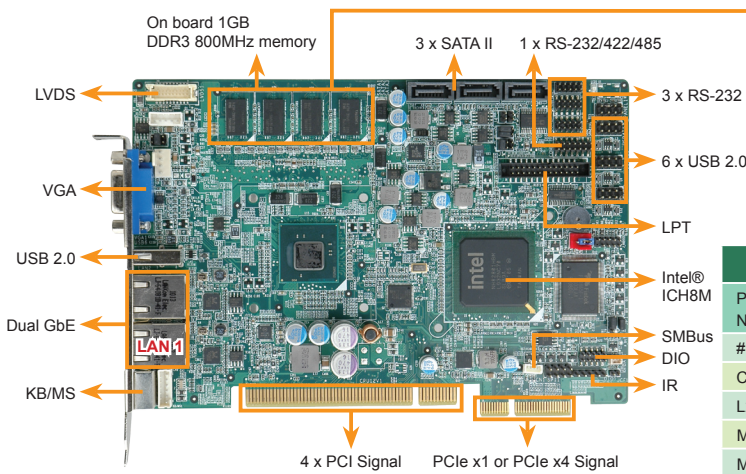


PIC0e-PV- D4251 N4551 D5251

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**

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

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

On-board memory

DDR 3 800

Dual Display

SATA II

USB 2.0

One Key Recovery

Gigabit Ethernet PCIe GbE

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