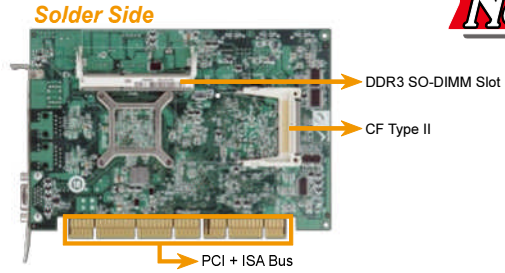
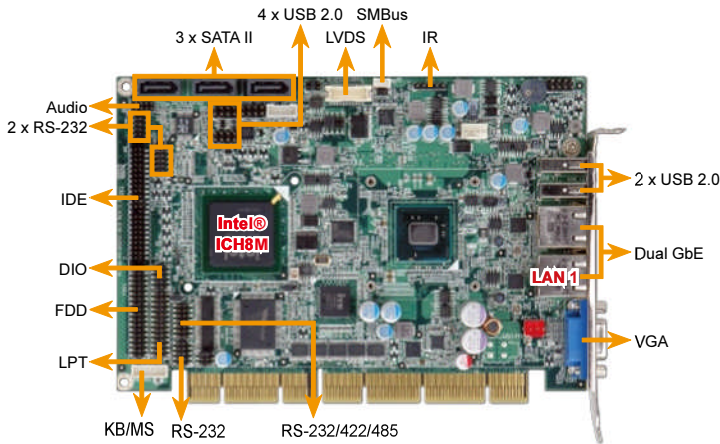


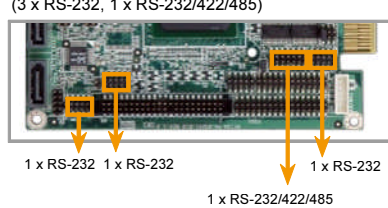
# PCISA-PV-D4251 N4551 D5251

Half-size PCISA CPU card with Intel® Atom™ D425/N455/D525, DDR3, VGA/LVDS, Dual PCIe GbE, USB 2.0, four COM, three SATA II, Audio and RoHS

**New**



**Four COM Ports Solution**



## Specifications

- ◆ CPU
  - Intel® Atom™ D525 dual-core processor (1.80GHz/1MB L2 cache)
  - Intel® Atom™ D425 single-core processor (1.80GHz/512KB L2 cache)
  - Intel® Atom™ N455 single-core processor (1.66GHz/512KB L2 cache)
- ◆ Chipset
  - Intel® ICH8M
- ◆ BIOS
  - UEFI BIOS
- ◆ Memory
  - One 204-pin 800MHz DDR3 SDRAM SO-DIMM supported (System max. 2GB)
- ◆ Graphics Engine
  - GMA 3150
  - Gen3.5 DX9, 400MHz for D525/D425
  - Gen3.5 DX9, 200MHz for N455
- ◆ Display Interface
  - Analog CRT up to 2048x1536 for D525/ D425, 1400x1050 for N455
  - Support for CRT hot plug
  - 18-bit Single channel LVDS, resolution support up to WXGA 1366x768 or XGA 1024x768
- ◆ Ethernet
  - Dual PCIe GbE by Realtek RT8111E, LAN1 supports ASF2.0
- ◆ I/O Interface
  - 3 x RS-232                      1 x RS-232/422/485 with Auto Flow control
  - 1 x FDD                         1 x LPT
  - 1 x KB/MS                      1 x Infrared
  - 1 x CF Type II                 3 x SATA II
  - 1 x IDE                         6 x USB 2.0 (4 by pin-header, 2 on rear side)
- ◆ Audio
  - Realtek ALC888 HD codec
- ◆ SMBus
  - 1 x 4-pin wafer connector
- ◆ TPM (Optional)
  - On board INFINEON SLB9635TT1.2
- ◆ Expansion
  - 4 x PCI bus support
  - ISA bus support by ITE IT8888G PCI to ISA bridge
- ◆ Digital I/O
  - 8-bit digital I/O, 4-bit input / 4-bit output
- ◆ Super IO
  - Fintek F81865
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Fan connector
  - 1 x 4-pin Fan Connector (smart fan)
- ◆ Power Supply
  - 5V/12V by PCISA bus, AT/ATX mode support
- ◆ Power Consumption
  - 5V@3.36A, 12V@0.57A (Intel® Dual Core Atom™ D525 1.80GHz with 1066MHz DDR3 1GB Memory)
  - 5V@3.25A, 12V@0.48A (Intel® Single Core Atom™ D425 1.80GHz with 1066MHz DDR3 1GB Memory)
  - 5V@3.21A, 12V@0.43A (Intel® Single Core Atom™ N455 1.66GHz with 1066MHz DDR3 1GB Memory)
- ◆ 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
- ◆ Weight
  - GW: 1000g / NW: 250g



**One Key Recovery**

## Features

1. PCISA CPU card support PCI and ISA bus expansion
2. Support Intel® Atom™ D525/ D425 /N455 processor
3. Support VGA and 18-bit single channel LVDS with dual display
4. Support 800MHz DDR3 SDRAM SO-DIMM up to 2GB
5. Support four COM, six USB 2.0, three SATA II, IDE and CF type II
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Packing List

1 x PCISA-PV-D4251/N4551/D5251 single board computer	
1 x LPT/RS-232 cable (P/N: 19800-002300-100-RS)	
3 x SATA cable (P/N: 32000-062800-RS)	1 x Audio cable (P/N: 19800-000111-RS)
1 x USB cable (P/N: CB-USB02-RS)	1 x Mini jumper pack
1 x QIG	1 x Utility CD

## Ordering Information

Part No.	Description
PCISA-PV-D5251-R10	Half-size PCISA CPU card with Intel® Dual Core Atom™ D525 1.80GHz/1MB L2 cache, VGA/LVDS, Dual PCIe GbE, USB 2.0, 4 COM, 3 SATA II and audio, RoHS
PCISA-PV-D5251T-R10	Half-size PCISA CPU card with Intel® Dual Core Atom™ D525 1.80GHz/1MB L2 cache, VGA/LVDS, Dual PCIe GbE, USB 2.0, 4 COM, 3 SATA II and audio,TPM, RoHS
PCISA-PV-D4251-R10	Half-size PCISA CPU card with Intel® Single Core Atom™ D425 1.80GHz/512KB L2 cache, VGA/LVDS, Dual PCIe GbE, USB 2.0, 4 COM, 3 SATA II and audio, RoHS
PCISA-PV-D4251T-R10	Half-size PCISA CPU card with Intel® Single Core Atom™ D425 1.80GHz/512KB L2 cache, VGA/LVDS, Dual PCIe GbE, USB 2.0, 4 COM, 3 SATA II and audio,TPM, RoHS
PCISA-PV-N4551-R10	Half-size PCISA CPU card with Intel® Single Core Atom™ N455 1.66GHz/512KB L2 cache, VGA/LVDS, Dual PCIe GbE, USB 2.0, 4 COM, 3 SATA II and audio, RoHS
PCISA-PV-N4551T-R10	Half-size PCISA CPU card with Intel® Single Core Atom™ N455 1.66GHz/512KB L2 cache, VGA/LVDS, Dual PCIe GbE, USB 2.0, 4 COM, 3 SATA II and audio,TPM, RoHS
19800-000075-RS	KB/MS cable with bracket
32200-000058-RS	FDD cable
32102-000100-200-RS	SATA power cable
32200-000052-RS	IDE 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