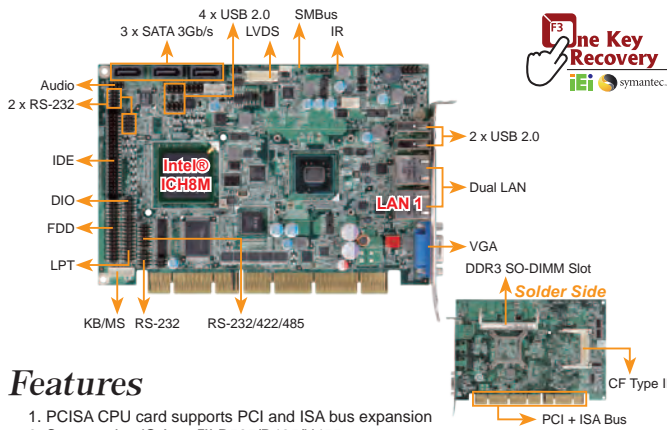


# PCISA-PV-D4251/N4551/D5251

Half-size PCISA CPU card with Intel® Atom™ D425/N455/D525, DDR3, VGA/LVDS, Dual PCIe GbE, USB 2.0, four COM, three SATA 3Gb/s, Audio and RoHS



## Features

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

## 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. 4GB for D525/D425 and 2GB for N455)
- ◆ 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
  - Supports for CRT hot plug
  - 18-bit single-channel LVDS supports resolution up to WXGA 1366x768 or XGA 1024x768
- ◆ Ethernet
  - LAN1: Realtek RT8111E with ASF 2.0 support
  - LAN2: Realtek RT8111E
- ◆ I/O Interface
  - 3 x RS-232
  - 1 x IDE
  - 1 x FDD
  - 1 x LPT
  - 1 x KB/MS
  - 1 x Infrared
  - 1 x CF Type II
  - 3 x SATA 3Gb/s
  - 1 x RS-232/422/485 with auto flow control
  - 6 x USB 2.0 (4 by pin-header, 2 on rear side)
- ◆ Super IO: Fintek F81865
- ◆ Audio: Realtek ALC888 HD codec
- ◆ SMBus: 1 x 4-pin wafer connector
- ◆ Expansions
  - 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
- ◆ 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 1GB 1066MHz DDR3 memory)
  - 5V@3.25A, 12V@0.48A (Intel® single-core Atom™ D425 1.80GHz with 1GB 1066MHz DDR3 memory)
  - 5V@3.21A, 12V@0.43A (Intel® single-core Atom™ N455 1.66GHz with 1GB 1066MHz DDR3 memory)
- ◆ Operating 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
- ◆ Storage Temperature: -30°C ~ 80°C
- ◆ Operating Humidity
  - 5% ~ 95%, non-condensing
- ◆ Weight: GW: 1000g/NW: 250g

## Packing List

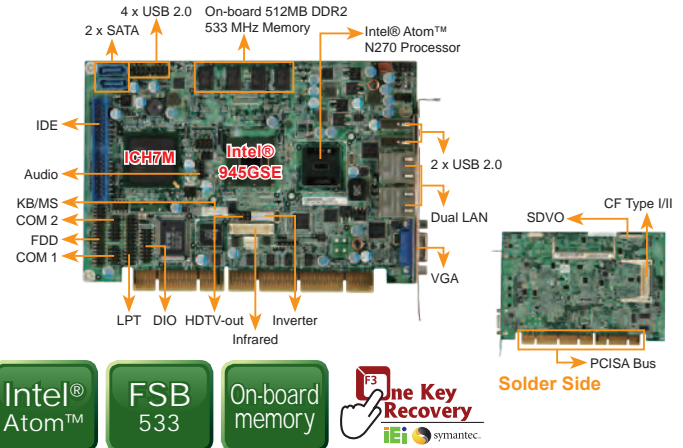
1 x PCISA-PV-D4251/N4551/D5251 single board computer	
1 x LPT/RS-232 cable (P/N: 19800-002300-200-RS)	
1 x USB cable (P/N: 19800-003100-300-RS)	
1 x Audio cable (P/N: 19800-000111-RS)	1 x One Key Recovery CD
3 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD
1 x Mini jumper pack	1 x QIG

## Ordering Information

Part No.	Description
PCISA-PV-D5251-R10	PCISA CPU card with Intel® D525 1.80GHz, VGA/LVDS, dual PCIe GbE, USB 2.0, 4 COM, 3 SATA 3Gb/s and audio, RoHS
PCISA-PV-D4251-R10	PCISA CPU card with Intel® D425 1.80GHz, VGA/LVDS, dual PCIe GbE, USB 2.0, 4 COM, 3 SATA 3Gb/s and audio, RoHS
PCISA-PV-N4551-R10	PCISA CPU card with Intel® N455 1.66GHz, VGA/LVDS, dual PCIe GbE, USB 2.0, 4 COM, 3 SATA 3Gb/s and audio, RoHS
19800-004300-100-RS	RS-232/422/485 cable with bracket
19800-000075-RS	KB/MS cable with bracket
32229-000400-100-RS	FDD cable
32102-000100-200-RS	SATA power cable
32200-000009-RS	IDE cable 44 to 44 pin (pitch: 2.0 -2.0)
32221-001700-100-RS	IDE cable 44 to 40 pin to 40 pin (pitch: 2.0 -2.54 -2.54)
19FFD124010HB2A7-000001-RS	CPU fan
34000-000510-RS	30mm higher heatsink

# PCISA-945GSE-R11

Half-size PCISA CPU card with Intel® Atom™ processor, 512 MB memory on board, VGA/LVDS/HDTV-out, Dual PCIe GbE, USB 2.0 and SATA



Intel® Atom™

FSB 533

On-board memory

Dual DDR2 533

Fanless

Dual Display

USB 2.0

SATA

PCIe GbE

## Features

1. PCISA CPU card supports four PCI and ISA expansions
2. Intel® Atom™ N270 processors at 1.6GHz core speed with a 533MHz FSB and 512KB L2 cache
3. 512 MB of 533 MHz DDR2 SDRAM on board
4. Supports VGA, HDTV-out up to 1080i and 18-bit dual-channel LVDS with dual display support
5. Two SATA, one IDE, floppy and CF type I/II for data storage
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU
  - On-board Intel® Atom™ N270 processor 1.6 GHz 512 KB L2 cache with a 533 MHz FSB
- ◆ System Chipset
  - Intel® 945GSE + ICH7M
- ◆ BIOS
  - AMI BIOS
- ◆ System Memory
  - On-board 512 MB DDR2 533 MHz memory
  - One 200-pin (system memory max. 2GB) 533MHz DDR2 SDRAM DIMM supported
- ◆ Ethernet
  - Dual PCIe Realtek 8111CP GbE
- ◆ I/O Interface
  - 2 x RS-232
  - 1 x RS-232/422/485
  - 1 x SATA
  - 1 x LPT
  - 1 x IDE
  - 1 x FDD
  - 1 x CF type I/II
  - 1 x 6-pin header for KB/MS
  - 6 x USB 2.0 (2 on bracket, 4 on board by pin header)
- ◆ Digital I/O
  - 8-bit digital I/O, 4-bit input/4-bit output
- ◆ Infrared Interface
  - 1 x Infrared by pin header
- ◆ Super I/O
  - ITE IT8718F
- ◆ Display Interface
  - VGA integrated in Intel® 945GSE
  - HDTV/TV supports NTSC/PAL and HDTV resolution up to 1080i
  - 18-bit dual-channel LVDS
- ◆ Audio
  - Supports 7.1 channel HD audio or 5.1 channel AC'97 audio by IEI audio kits
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Power Supply
  - AT/ATX power
- ◆ Power consumption
  - 5V@2.89A, 12V@0.22A (Intel® Atom™ N270 1.6GHz/533 MHz CPU with 512 MB 533 MHz DDR2)
- ◆ Operating Temperature
  - 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Storage Temperature
  - 10°C ~ 70°C
- ◆ Operating Humidity
  - 5% ~ 95%, non-condensing
- ◆ Dimensions
  - 185 mm x 127.6 mm
- ◆ Weight
  - GW: 1000g/NW: 252g

## Packing List

1 x PCISA-945GSE single board computer	
1 x LPT/RS-232 cable (P/N: 19800-003500-100-RS)	
1 x USB cable (P/N: 19800-003100-300-RS)	1 x Mini jumper pack
2 x SATA cable (P/N: 32000-062800-RS)	1 x QIG
1 x One Key Recovery CD	1 x Utility CD

## Ordering Information

Part No.	Description
PCISA-945GSE-N270-512MB-R11	PCISA CPU card with Intel® Atom™ N270 1.6G processor, 512 MB memory on board, VGA/LVDS/HDTV-out, dual PCIe GbE, USB 2.0, SATA
AC-KIT-892HD-R10	7.1 channel HD audio kit with Realtek ALC892 supports dual audio streams
AC-KIT08R-R10	5.1 channel AC'97 audio kit with Realtek ALC655
32102-000100-200-RS	SATA power cable
32225-002000-200-RS	ATA 66 flat cable
32229-000400-100-RS	FDD cable w/o bracket
19800-004300-100-RS	RS-232/422/485 cable with bracket
19800-000075-RS	KB/MS cable with bracket