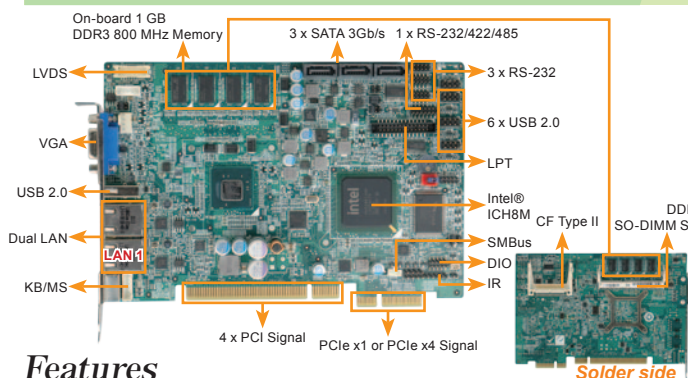


## PICOe-PV-D4251/N4551/D5251

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 3Gb/s, Audio and RoHS



### Features

- PCIe CPU card supports four PCIe x1 or one PCIe x4, and four PCI expansions
- Intel® Atom™ D525/D425/N455 processor
- 1 GB of DDR3 800 MHz SDRAM on board and one expansion SO-DIMM slot support
- Supports VGA and 18-bit single-channel LVDS with dual display support
- I/O includes three RS-232, one RS-232/422/485, seven USB 2.0 and three SATA 3Gb/s
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

### 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 800 MHz DDR3 SDRAM SO-DIMM supported (system max. 4 GB for D525/D425, 2 GB for N455) (compatible with 128MB\*8 SDRAM)
  - On-board 1 GB DDR3 800 MHz memory
- ◆ Graphics Engine
  - GMA 3150
  - Gen3.5 DX9, 400 MHz for D525/D425
  - Gen3.5 DX9, 200 MHz for N455
- ◆ Ethernet
  - LAN1: Realtek RTL8111E GbE controller with ASF 2.0 support
  - LAN2: Realtek RTL8111E GbE controller
- ◆ Display Interface
  - Analog CRT up to 2048x1536 for D525/D425, 1400x1050 for N455
  - Supports CRT hot plug
  - Single-channel 18-bit LVDS supports resolution up to XGA (1024x768) & WXGA (1366x768)
- ◆ I/O Interfaces
  - 1 x CF Type II
  - 1 x LPT
  - 3 x RS-232
  - 3 x SATA 3Gb/s
  - 1 x PS/2 for KB/MS
  - 1 x 6-pin wafer connector for KB/MS
  - 1 x RS-232/422/485 with auto flow control
  - 7 x USB 2.0 (6 by header, 1 on rear side)
- ◆ Digital I/O
  - 8-bit digital I/O
  - Super IO: Fintek F81865
- ◆ Infrared Interface: 1 x 5-pin header
- ◆ 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
  - Supports 7.1-channel HD Audio by IEI AC-KIT-892HD-R10 kit
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Power Consumption
  - 5V@3.38A, 12V@0.54A (Intel® Dual Core Atom™ D525 1.80GHz with 1 GB DDR3 800 MHz memory on board)
  - 5V@3.28A, 12V@0.43A (Intel® Single Core Atom™ D425 1.80GHz with 1 GB DDR3 800 MHz memory on board)
  - 5V@3.13A, 12V@0.32A (Intel® Single Core Atom™ N455 1.66GHz with 1 GB DDR3 800 MHz memory on board)
- ◆ Power Supply: 5V/12V, AT/ATX support
- ◆ 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
- ◆ Dimensions: 185 mm x 122 mm
- ◆ Weight: 1000 g (GW)/ 250 g (NW)

### Packing List

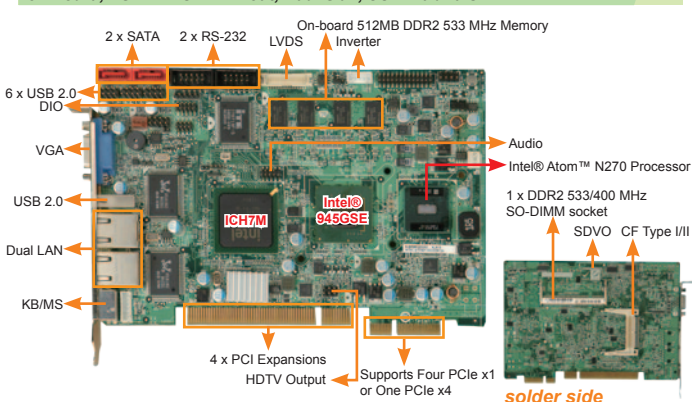
1 x PICOe-PV-D4251/N4551/D5251 single board computer	
1 x Dual RS-232 cable (P/N: 19800-000112-RS)	1 x Mini jumper pack
1 x KB/MS Y cable (P/N: 32006-000300-100-RS)	1 x One Key Recovery CD
1 x USB cable (P/N: 19800-003100-300-RS)	1 x QIG
3 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD

### Ordering Information

Part No.	Description
PICOe-PV-D5251-R11	Half-size PCIe CPU card with Intel® Atom™ dual-core D525 1.80GHz/1MB L2, 1 GB memory on board, VGA, LVDS, dual PCIe GbE, USB 2.0, SATA 3Gb/s, audio and RoHS
PICOe-PV-N4551-R11	Half-size PCIe CPU card with Intel® Atom™ single-core N455 1.66GHz/512K L2, 1 GB memory on board, VGA, LVDS, dual PCIe GbE, USB 2.0, SATA 3Gb/s, audio and RoHS
PICOe-PV-D4251-R11	Half-size PCIe CPU card with Intel® Atom™ single-core D425 1.80GHz/512K L2, 1 GB memory on board, VGA, LVDS, dual PCIe GbE, USB 2.0, SATA 3Gb/s, audio and RoHS
19800-000075-RS	KB/MS cable with bracket
19800-004300-100-RS	RS-232/422/485 cable with bracket
19FFD124010HB2A7-000001-RS	CPU fan
32102-000100-200-RS	SATA power cable
32200-015100-RS	LPT cable
34000-000510-RS	30mm higher heatsink
AC-KIT-892HD-R10	7.1-channel HD Audio kit with Realtek ALC892 supports dual audio streams

## PICOe-945GSE

Half-size PCIe CPU Card with Intel® Atom™ Processor, 512MB Memory on Board, VGA/LVDS/HDTV-out, Dual GbE, USB 2.0 and SATA



### Features

- PCIe CPU card supports four PCIe x1 or one PCIe x4, and 4 x PCI expansions
- Intel® Atom™ processor N270 at 1.6GHz core speed with 533 MHz FSB and 512 KB L2 cache
- 512 MB of 533 MHz DDR2 SDRAM on board
- Supports VGA, HDTV-out (up to 1080i) and 18-bit dual-channel LVDS with dual display support
- I/O includes two RS-232, seven USB 2.0 and two SATA
- 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 533 MHz FSB
- ◆ System Chipset
  - Intel® 945GSE + ICH7M
- ◆ BIOS
  - AMI BIOS
- ◆ System Memory
  - On-board 512 MB DDR2 533 MHz SDRAM and one 200-pin 533/400 MHz DDR2 SDRAM SO-DIMM supported (system max. 2 GB)
- ◆ Ethernet
  - Dual PCI Realtek 8110SC GbE
- ◆ I/O Interface
  - 1 x CF Type I/II
  - 2 x RS-232
  - 1 x LPT
  - 2 x SATA
  - 1 x PS/2 connector for KB/MS
  - 7 x USB 2.0 (1 on bracket, 6 on board by pin header)
- ◆ Digital I/O
  - 8-bit digital I/O
- ◆ 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 1.6 GHz/533 MHz CPU with 1 GB DDR2 533 MHz)
- ◆ 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 122 mm
- ◆ Weight: 1000 g (GW)/ 250 g (NW)

### Packing List

1 x PICOe-945GSE single board computer	
1 x Dual RS-232 cable (P/N: 19800-000051-RS)	1 x Mini jumper pack
1 x KB/MS Y cable (P/N: 32006-000300-100-RS)	1 x One Key Recovery
1 x USB cable (P/N: 19800-003100-300-RS)	1 x QIG
2 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD

### Ordering Information

Part No.	Description
PICOe-945GSE-N270-512MB-R10	PCIe CPU card with Intel® Atom™ N270 1.6 GHz processor, 512 MB memory on board, VGA/LVDS/HDTV-out, dual GbE, USB 2.0, SATA
32102-000100-200-RS	SATA power cable
32200-015100-RS	LPT cable
AC-KIT08R-R10	5.1-channel AC'97 audio kit with Realtek ALC655
AC-KIT-892HD-R10	7.1-channel HD Audio kit with Realtek ALC892 supports dual audio streams