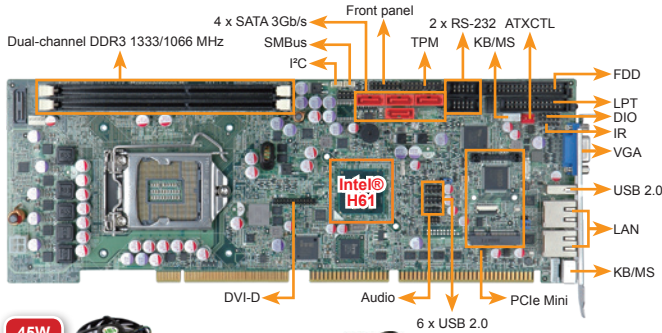


# WSB-H610-R11

Full-size PICMG 1.0 CPU Card supports 32nm LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® H61, DDR3, VGA, DVI-D, Dual Realtek PCIe GbE, USB 2.0, SATA 3Gb/s, COM, HD Audio and RoHS



## Features

- Full-size PICMG 1.0 CPU card with LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- Two DDR3 & DDR3L 1333/1066 MHz DIMM SDRAM support up to 16 GB
- Embedded controller on board supports infrared and PECI 2.0 technologies
- Dual Realtek PCIe GbE and LAN1 with ASF 2.0 support
- TPM V1.2 hardware security function supported by TPM module
- IEI One Key Recovery solution allows you to create raidp OS backup and recovery

## Specifications

- ◆ CPU: LGA 1155 socket supports Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor
- ◆ Chipset: Intel® H61
- ◆ Memory: Two 240-pin 1333/1066 MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs support up to 16 GB
- ◆ BIOS: UEFI
- ◆ Graphics Engine: Intel® HD Graphics Gen 6 supports DX10.1 and OpenGL 3.0 Full MPEG2, VC1, AVC Decode
- ◆ Display Output: 1 x VGA (up to 2048x1536@75Hz) 1 x DVI-D (up to 1920x1200@60Hz) (via header to IO-KIT-001-R20 DVI-D/USB module) (optional)
- ◆ Ethernet: LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ External I/O Interface: 1 x KB/MS 1 x USB 2.0
- ◆ Internal I/O Interface: 1 x FDD (2x17 pin) 1 x KB/MS (1x6 pin) 1 x LPT (2x13 pin) 1 x RS-422/485 (1x4 pin, P=2.0) 2 x RS-232 (2x5pin, P=2.54) 4 x SATA 3Gb/s (no AHCI & RAID support) 6 x USB 2.0 (2x4 pin, P=2.54)
- ◆ Audio: Supports 7.1-channel HD Audio by IEI AC-KIT-892HD-R10 kit
- ◆ Front Panel: 1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ I²C: 1 x I²C (1x4 pin)
- ◆ Expansion: PCI signal and ISA signal via golden finger
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Fan Connector: 1 x CPU smart fan (1x4 pin) 1 x System smart fan (1x4 pin)
- ◆ Power Supply: 5V/12V, AT/ATX support
- ◆ Power Consumption: 5V@4.53A, 12V@0.19A, Vcore\_12V@7.81A, 5VSB@0.18A (3.4GHz Intel® Core™ i7-2600K with two 2 GB 1333 MHz DDR3 memory)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 338 mm x 122 mm
- ◆ Weight: GW: 1000g / NW: 260g
- ◆ CE/FCC compliant

## Packing List

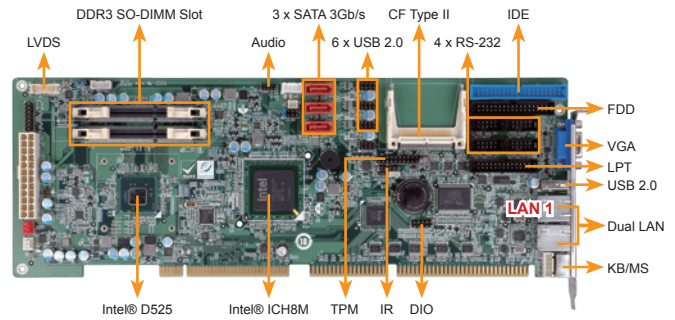
|                                    |                      |
|------------------------------------|----------------------|
| 1 x WSB-H610 single board computer | 2 x SATA cable       |
| 1 x Dual RS-232 cable with bracket | 1 x Mini jumper pack |
| 1 x KB/MS Y cable                  | 1 x QIG              |
| 1 x USB cable                      |                      |

## Ordering Information

| Part No.            | Description   |
|---------------------|---|
| WSB-H610-R11        | Full-size PICMG 1.0 CPU card supports 32nm LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® H61, DDR3, VGA, dual Realtek PCIe GbE, USB 2.0, SATA 3Gb/s, COM, HD Audio and RoHS        |
| WSB-H610-DVI-R11    | Full-size PICMG 1.0 CPU card supports 32nm LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® H61, DDR3, VGA, DVI-D, dual Realtek PCIe GbE, USB 2.0, SATA 3Gb/s, COM, HD Audio and RoHS |
| 19800-000049-RS     | LPT flat cable, 240mm, P=2.54   |
| 19800-000075-RS     | PS/2 KB/MS cable with bracket, 220mm, P=2.0   |
| 32006-000300-100-RS | PS/2 KB/MS Y-cable without bracket, 140mm/120mm   |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P  |
| 32200-000017-RS     | FDD cable, 520mm, P=2.54  |
| AC-KIT-892HD-R10    | 7.1-channel HD Audio kit with Realtek ALC892 supports dual audio streams  |
| CF-115XA-R10        | High performance LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 73W   |
| CF-1156C-R20        | LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 45W  |
| CF-1156D-R20        | LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 65W  |
| CF-115XE-R10        | High performance LGA 1155/LGA 1156 cooler kit, 95W  |
| SAIDE-KIT01-R10     | SATA to IDE/CF converter board  |
| TPM-IN01-R20        | 20-pin Infineon TPM module, software management tool, firmware v3.17  |

# WSB-PV-D4251/D5251

Full-size PICMG 1.0 CPU Card with Intel® Atom™ D425/D525, DDR3, VGA, LVDS, Dual PCIe GbE, SATA 3Gb/s, COM, USB 2.0, Audio and RoHS



## Features

- PICMG 1.0 form factor and RoHS compliant
- Supports Intel® Atom™ D425/D525 1.80GHz processor
- Supports 800 MHz DDR3 SDRAM SO-DIMM up to 4 GB
- Dual PCIe Ethernet, three SATA 3Gb/s, and four RS-232 serial port connectors
- VGA and 18-bit single-channel LVDS for dual independent display support
- TPM V1.2 hardware security function supported by TPM module
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU: Intel® Atom™ D525 dual-core processor (1.80GHz, dual-core, 1MB cache) Intel® Atom™ D425 single-core processor (1.80GHz, single-core, 512KB cache)
- ◆ Chipset: ICH8M
- ◆ BIOS: UEFI BIOS
- ◆ System Memory: One 240-pin 800 MHz dual-channel DDR3 SDRAM unbuffered DIMMs support up to 4 GB
- ◆ Graphics Engine: GMA 3150, Gen3.5 DX9, 400 MHz
- ◆ Display output: 1 x VGA (up to 2048x1536@60Hz) 1 x 18-bit single channel LVDS (up to 1366x768@60Hz)
- ◆ Ethernet: LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Infrared Interface: 1 x Infrared Interface (1x5 pin)
- ◆ External I/O Interface: 1 x KB/MS 1 x USB 2.0
- ◆ Internal I/O Interface: 1 x FDD (2x17 pin) 1 x IDE (2x20 pin, P=2.54) 1 x LPT (2x13 pin) 1 x KB (1x5 pin, P=2.5) 4 x RS-232 (2x5pin, P=2.54) 4 x SATA 3Gb/s 6 x USB 2.0 (2x4 pin, P=2.54)
- ◆ 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 Supply: AT/ATX power
- ◆ Power Consumption: 5V@5.16A, 12@0.55A (Intel® dual core Atom™ D525 1.80GHz with two 2 GB 1066 MHz 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
- ◆ Storage Temperature: -30°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 338 mm x 122 mm
- ◆ Weight: GW: 1100g
- ◆ CE/FCC compliant

## Packing List

|  |                      |
|--|----------------------|
| 1 x WSB-PV-D4251/D5251 single board computer | 2 x SATA cable       |
| 1 x Dual RS-232 cable                        | 1 x Mini jumper pack |
| 1 x USB cable                                | 1 x QIG              |

## Ordering Information

| Part No.                   | Description   |
|----------------------------|---|
| WSB-PV-D5251-R10           | Full-size PICMG 1.0 CPU card with Intel® dual-core Atom™ D525 1.80GHz/1MB L2 cache, DDR3, VGA, LVDS, dual PCIe GbE, SATA 3Gb/s, COM, USB 2.0, audio, RoHS     |
| WSB-PV-D4251-R10           | Full-size PICMG 1.0 CPU card with Intel® single-core Atom™ D425 1.80GHz/512KB L2 cache, DDR3, VGA, LVDS, dual PCIe GbE, SATA 3Gb/s, COM, USB 2.0, audio, RoHS |
| 19800-000049-RS            | LPT flat cable, 240mm, P=2.54   |
| 19800-000100-200-RS        | Quad-port USB cable, 300mm, P=2.54  |
| 19FFD124010HB2A7-000001-RS | CPU fan   |
| 32006-000300-100-RS        | PS/2 KB/MS Y-cable without bracket, 140mm/120mm   |
| 32102-000100-200-RS        | SATA power cable, MOLEX 5264-4P to SATA15P  |
| 32200-000017-RS            | FDD cable, 520mm, P=2.54  |
| 32225-002000-200-RS        | ATA 66 flat cable, 457mm, P=2.54  |
| 34000-000510-RS            | 30mm higher heatsink  |
| AC-KIT-892HD-R10           | 7.1-channel HD Audio kit with Realtek ALC892 supports dual audio streams  |
| TPM-IN01-R20               | 20-pin Infineon TPM module, software management tool, firmware v3.17  |

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