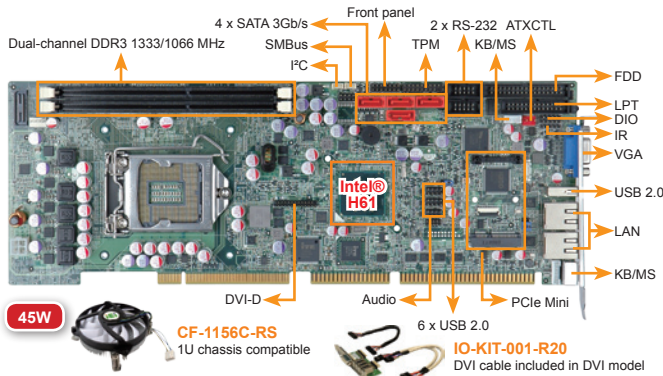


WSB-H610-R11

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 supported 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 rapid OS backup and recovery

Specifications

- CPU: LGA 1155 socket supports Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor
- PCH: Intel® H61
- Memory: Two 240-pin 1333/1066 MHz dual-channel DDR3 & DDR3L (1.35V) DIMMs supported (system max. 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
- Super I/O: Fintek F81866
- PCIe-PCI Bridge: ITE IT8892E
- PCI-ISA Bridge: ITE IT8888G
- I/O Interface: 1 x 6-pin wafer for KB & MS, 1 x FDD, 1 x LPT, 1 x PS/2 KB/MS, 1 x RS-422/485, 2 x RS-232, 4 x SATA 3Gb/s (H61 doesn't support AHCI & RAID), 7 x USB 2.0 (1 on rear, 6 by pin header)
- Embedded Controller: ITE IT8519E
- Audio: Supports 7.1-channel HD Audio by IEI AC-KIT-892HD-R10 kit
- Front Panel: 1 x Front panel (power LED, HDD LED, speaker, power button, reset button)
- TPM: 1 x TPM connector (2x10 pin)
- SMBus: 1 x 4-pin wafer
- I²C: 1 x 4-pin wafer
- Expansions: 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
- Fan Connector: 1 x 4-pin smart fan connector, 1 x 4-pin system fan connector
- 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: 1000 g (GW)/260 g (NW)

Packing List

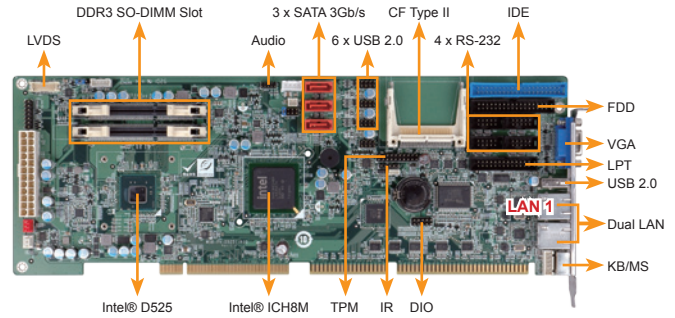
1 x WSB-H610 single board computer	
1 x Dual RS-232 cable with bracket (P/N: 19800-000051-RS)	
1 x KB/MS Y cable (P/N: 32006-000300-100-RS)	
1 x USB cable (P/N: 19800-003100-300-RS)	1 x Mini jumper pack
2 x SATA cable (P/N: 32000-062800-RS)	1 x QIG (Quick Installation Guide)
1 x One Key Recovery CD	1 x Utility CD

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 cable
19800-000075-RS	PS/2 KB/MS Y-cable with bracket, 6-pin header, 220mm
32006-000300-100-RS	Male PS/2 KB/MS Y-cable w/o bracket, 12cm (KB)+14cm (MS)
32102-000100-200-RS	SATA power cable
32200-000017-RS	FDD cable
AC-KIT-892HD-R10	7.1-channel HD Audio kit with Realtek ALC892 supports dual audio streams
CF-1156A-RS-R11	High performance LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 73W
CF-1156C-RS	LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-RS	LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 65W
CF-1156E-R11	High performance LGA 1155/LGA 1156 cooler kit, 95W
SAIDE-KIT01-R10	SATA to IDE/CF converter board
TPM-IN01-R11	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/1MB L2 cache), Intel® Atom™ D425 single-core processor (1.80GHz/512KB L2 cache)
- System Chipset: ICH8M
- BIOS: UEFI BIOS
- System Memory: Two 204-pin 800 MHz DDR3 SDRAM SO-DIMMs supported (system max. 4 GB)
- Graphics Engine: GMA 3150, Gen3.5 DX9, 400 MHz
- Ethernet: LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support, LAN2: Realtek RTL8111E PCIe GbE controller
- Display Interface: Analog CRT up to 2048x1536 for D525/D425, Supports CRT hot plug, 18-bit single-channel LVDS, resolution support up to WXGA 1366x768 or XGA 1024x768
- Super I/O: Fintek F81865
- TPM: 1 x TPM connector (2x10 pin)
- SMBus: 1 x 4-pin wafer connector
- Digital I/O: 8-bit digital I/O
- Infrared Interface: 1 x 5-pin infrared by pin header
- I/O Interface: 1 x FDD, 1 x 5-pin on-board header for KB, 1 x IDE, 1 x CF Type II, 1 x LPT, 1 x PS/2 connector for KB/MS, 4 x RS-232, 3 x SATA 3Gb/s, 7 x USB 2.0 (1 on bracket, 6 on board by pin header)
- Audio: 1 x 10-pin on-board header connects to the IEI audio 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

Packing List

1 x WSB-PV-D4251/D5251 single board computer	1 x Mini jumper pack
1 x Dual RS-232 cable (P/N: 19800-000051-RS)	1 x One Key Recovery CD
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
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 cable
19800-000100-200-RS	4-port USB cable
19FFD124010HB2A7-000001-RS	CPU fan
32006-000300-100-RS	KB/MS Y cable
32102-000100-200-RS	SATA power cable
32200-000017-RS	FDD cable
32225-002000-200-RS	ATA 66 flat cable
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-R11	20-pin Infineon TPM module, software management tool, firmware v3.17