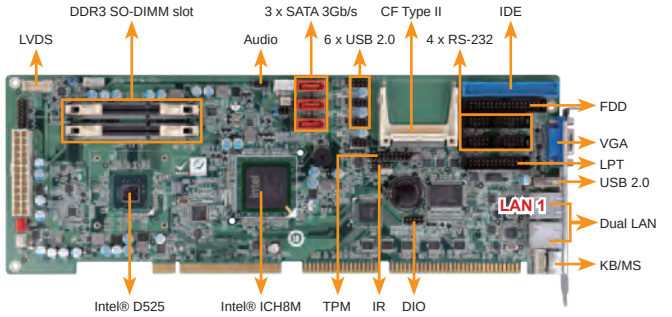
WSB-PV-D4251/D5251

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

TPM 1.2 Support

1. PICMG 1.0 form factor and RoHS compliant
2. Support Intel® Atom™ D425/D525 1.80GHz processor
3. Supports 800MHz DDR3 SDRAM SO-DIMM up to 4GB
4. Dual PCIe Ethernet, three SATA 3Gb/s, and four RS-232 serial port connectors
5. VGA and 18-bit single-channel LVDS for dual independent display support
6. TPM V1.2 hardware security function supported by TPM module
7. 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 800MHz DDR3 SDRAM SO-DIMMs supported (system max. 4GB) for D525/D425
- Graphics Engine
  GMA 3150
  Gen3.5 DX9, 400MHz for D525/D425
- 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
- TPM: 2 x 10-pin header
- SMBus: 1 x 4-pin wafer connector
- Digital I/O: 8-bit digital I/O, 4-bit input/4-bit output
- Infrared Interface: 1 x 5-pin infrared by pin header
- I/O Interface
  4 x RS-232 3 x SATA 3Gb/s
  1 x IDE 1 x CF Type II
  1 x FDD 1 x 5-pin on-board header for KB
  1 x LPT 1 x PS/2 connector for KB/MS
  7 x USB 2.0 (1 on bracket, 6 on board by pin header)
- Super I/O: Fintek F81865
- 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 2GB 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
- Storage Temperature: -30°C ~ 70°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions: 338 mm x 122 mm
- Weight: GW: 1100g

Packing List

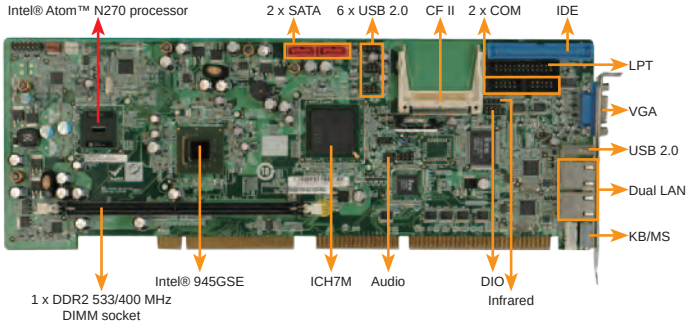
1 x WSB-PV-D4251/D5251 single board computer	
2 x SATA cable (P/N: 32000-062800-RS)	
1 x Dual RS-232 cable (P/N: 19800-000051-RS)	1 x Mini jumper pack
1 x USB cable (P/N: 19800-003100-300-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

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
AC-KIT-892HD-R10	7.1 channel HD audio kit with Realtek ALC892 supports dual audio streams
19800-000100-200-RS	4 ports USB cable
32006-000300-100-RS	KB/MS Y cable
32225-002000-200-RS	ATA 66 flat cable
32102-000100-200-RS	SATA power cable
19800-000049-RS	LPT cable
2200-000017-RS	FDD cable
19FFD124010HB2A7-000001-RS	CPU fan
34000-000510-RS	30mm higher heatsink
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17

WSB-945GSE

Full-size PICMG 1.0 CPU card supports Intel® Atom™ processor and comes with VGA, Dual PCIe GbE, USB 2.0, SATA and Audio



Features

1. PICMG 1.0 and RoHS compliant
2. Intel® Atom™ processor N270 at 1.6GHz core speed with a 533MHz FSB and 512KB L2 cache
3. Enhanced technology for lower power consumption
4. Two SATA and CF type I/II for data storage
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- CPU
  On-board Intel® Atom™ N270 processor, 1.6GHz 512KB L2 cache with a 533MHz FSB
- System Chipset
  Intel® 945GSE + ICH7M
- BIOS
  AMI BIOS
- System Memory
  One 240-pin 533/400 MHz DDR2 SDRAM DIMM supported (system max. 2GB)
- Ethernet
  Dual Realtek 8111CP PCIe GbE controllers
- I/O Interface
  2 x RS-232 2 x SATA
  1 x IDE 1 x LPT
  7 x USB 2.0 (1 on bracket, 6 on board by pin header)
  1 x PS/2 connector for KB/MS
- 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
- Audio
  Support 7.1 channel HD audio or 5.1 channel AC-97 audio by IEI audio kits
- SSD
  CF type I/II
- Watchdog Timer
  Software programmable supports 1 ~255 sec. system reset
- Power Supply
  AT/ATX power
- Power Consumption
  5V@2.55A, 12V@0.23A
  (Intel® Atom™ N270 1.6GHz/533MHz CPU with 1GB 533MHz DDR2)
- Operating Temperature
  0°C ~ 60°C (32°F ~ 140°F)
- Storage Temperature: -10°C ~ 70°C
- Operating Humidity
  5% ~ 95%, non-condensing
- Dimensions: 338 mm x 122 mm
- Weight: GW: 1.0 kg/NW: 0.25 kg

Packing List

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

Ordering Information

Part No.	Description
WSB-945GSE-N270-R10	PICMG 1.0 with Intel® Atom™ processor N270 1.6GHz processor, VGA, 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
32225-002000-200-RS	ATA 66 flat cable
32102-000100-200-RS	SATA power cable
19800-000049-RS	LPT cable