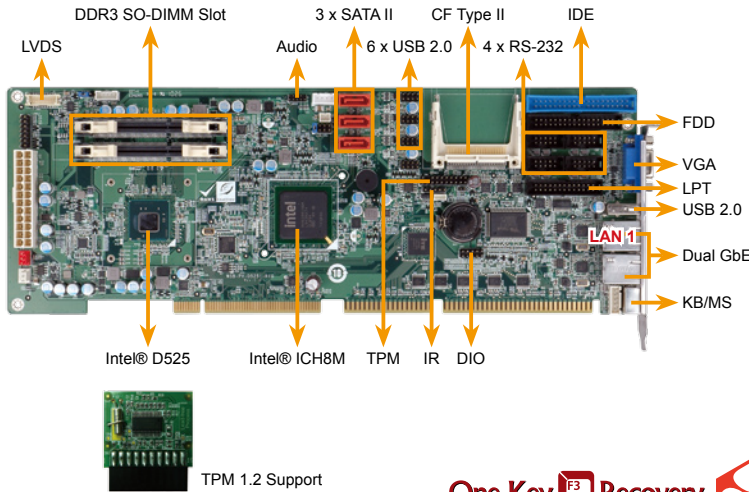


WSB-PV-D4251 D5251

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



Dual Independent Display support

| Processor Name | Intel® Atom™ D525 (1M Cache, 1.80 GHz) | Intel® Atom™ D425 (512K Cache, 1.80 GHz) |
|-------------------|--|--|
| # of Cores | 2 | 1 |
| CPU Freq. | 1.80 GHz | 1.80 GHz |
| Memory Freq. | DDR3 800MHz | |
| Memory Channel | Single Channel, 2 SO-DIMM Slots | |
| Max. Memory Size | 4GB | |
| Display Interface | Dual Display independently by VGA and LVDS | |
| Max. Resolution | VGA: 2048 x 1536 | |
| | LVDS: 1366 x 768; WXGA: 1280 x 800 | |



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
 - Dual PCIe Realtek RTL8111E GbE controller, LAN1 with ASF2.0 support
- ◆ 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
- ◆ I/O Interface
 - 4 x RS-232
 - 1 x IDE
 - 1 x CF Type II
 - 1 x LPT
 - 7 x USB 2.0 (1 on bracket, 6 on board by pin header)
 - 3 x SATA II
 - 1 x FDD
 - 1 x 5-pin on-board header for KB
 - 1 x PS/2 connector for KB/MS
- ◆ 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
- ◆ Super I/O
 - Fintek F81865
- ◆ Audio
 - 1 x 5-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, 12V@0.55A (Intel® Dual Core Atom™ D525 1.80GHz with 1066MHz DDR3 1GBx2 Memory)
- ◆ 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
- ◆ Humidity
 - Operation: 5% ~ 95% non-condensing
- ◆ Dimensions
 - 338 mm x 122 mm
- ◆ Weight
 - GW: 1100g

Features

1. PICMG 1.0 form factor and RoHS compliant
2. Support Intel® Atom™ D425/D525 1.80GHz processor
3. Support 800MHz DDR3 SDRAM SO-DIMM up to 4GB
4. Dual PCIe Ethernet, three SATA II, 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

Packing List

| | |
|--|----------------------|
| 1 x WSB-PV-D4251/D5251 single board computer | |
| 3 x SATA cable (P/N: 32000-062800-RS) | |
| 1 x Dual RS-232 cable (P/N: 19800-000051-RS) | |
| 1 x USB cable (P/N: CB-USB02-RS) | 1 x Mini jumper pack |
| 1 x Utility 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 II, COM, USB 2.0 and 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 II, COM, USB 2.0 and audio, RoHS |
| AC-KIT-883HD-R10 | 7.1 channel HD Audio kit with Realtek ALC883 support dual audio streams |
| CB-USB14-RS | 4 ports USB cable |
| 32000-133200-RS | KB/MS Y cable |
| 32200-000052-RS | ATA 66 flat cable |
| 32102-000100-200-RS | SATA power cable |
| 19800-000049-RS | LPT cable |
| 2200-000017-RS | FDD cable |
| 19FTS00032100-000001-RS | CPU Fan |
| TPM-IN01-R11 | 20-pin INFINEON TPM module, S/W management Tool, Firmware V3.17 |