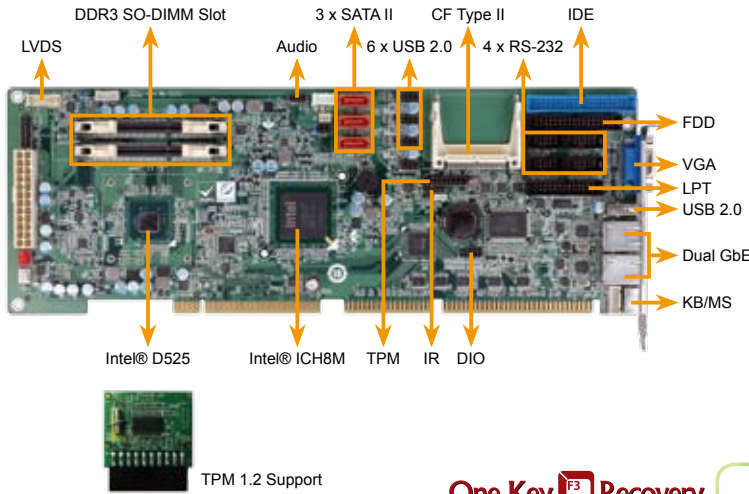


# WSB-PV-D5251

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



**Dual Independent Display support**

Feature Comparison Table for WSB-PV SKUs			
Processor Name	Intel® Atom™ D525 (1M Cache, 1.80 GHz)	Intel® Atom™ D425 (512K Cache, 1.80 GHz)	Intel® Atom™ N455 (512K Cache, 1.66 GHz)
# of Cores	2	1	1
CPU Freq	1.80 GHz	1.80 GHz	1.66 GHz
Memory Freq	DDR3 800MHz		
Memory Channel	Single Channel, 2 SO-DIMM Slots		
Max Memory Size	4GB		2GB
Display Interface	Dual Display independently by VGA and LVDS		
Max Resolution	VGA: 2048 x 1536		VGA: 1400 x 1050
	LVDS: 1366 x 768; WXGA: 1280 x 800		
Max TDP	13 W	10 W	6.5 W



## Specifications

- ◆ CPU
  - Intel® Atom™ D525 dual-core processor 1.80GHz/1MB L2 cache
  - Intel® Atom™ D425 single-core processor 1.80GHz/512KB L2 cache
  - Intel® Atom™ N455 single-core processor 1.66GHz/512KB L2 cache
- ◆ System Chipset ICH8M
- ◆ BIOS AMI uEFI BIOS
- ◆ System Memory
  - Two 204-pin 800MHz DDR3 SDRAM SO-DIMMs supported (System max. 4GB) for D525/D425
  - Two 204-pin 800MHz DDR3 SDRAM SO-DIMMs supported (System max. 2GB) for N455
- ◆ Graphics Engine
  - GMA 3150
  - Gen3.5 DX9, 400MHz for D525/D425
  - Gen3.5 DX9, 200MHz for N455
- ◆ Ethernet
  - Dual PCIe Realtek RTL8111E GbE controller with ASF2.0 support
- ◆ Display Interface
  - Analog CRT up to 2048x1536 for D525/D425, 1400x1050 for N455
  - Supports for CRT hot plug
  - 18-bit single channel LVDS, resolution support up to WXGA 1366x768 or XGA 1024x768
- ◆ I/O Interface
  - 4 x RS-232                      3 x SATA II
  - 1 x IDE                              1 x FDD
  - 1 x CF Type II                      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)
- ◆ 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
  - Operation: -10°C ~ 60°C
- ◆ Humidity
  - Operation: 5% ~ 95% non-condensing
- ◆ Dimension
  - 338 mm x 122 mm
- ◆ Weight
  - GW: 1100g

## Features

1. PICMG 1.0 form factor and RoHS compliant
2. Support Intel® Dual Core Atom™ D525 1.80GHz
3. Support 800MHz DDR3 SDRAM SO-DIMM up to 4GB
4. Dual PCIe Ethernet, 3 x SATA II, and 4 x 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-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
WSB-PV-N4551-R10	Full-size PICMG 1.0 CPU card with Intel® Single Core Atom™ N455 1.66GHz/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
32102-000100-100-RS	SATA Power cable
32102-000100-200-RS	
32102-000100-300-RS	
19800-000049-RS	LPT cable
2200-000017-RS	FDD cable