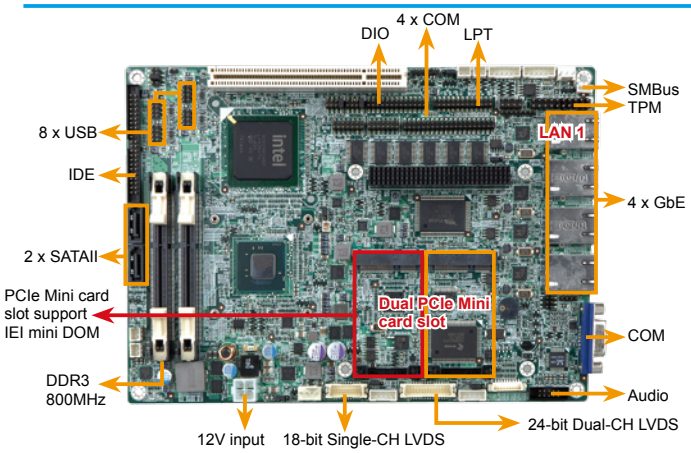
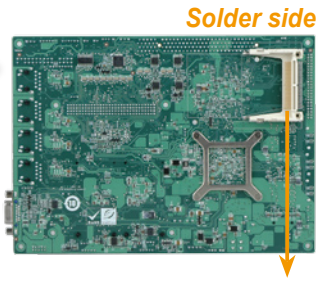
NOVA-PV-D4251 D5251

5.25" SBC, Intel® Atom™ D425/D525, DDR3, 18-bit+48-bit LVDS/ VGA, Dual PCIe Mini, Quad PCIe GbE, USB 2.0, SATA II, Audio, RoHS



TPM module



CF TypeII

Features

1. 5.25" SBC Support Intel® Atom™ D525 / D425 processor
2. DDR3 800/1066 MHz supports up to 4GB
3. VGA/ 18-bit single-channel/ 24-bit dual-channel LVDS for dual independent display support
4. Quad PCIe Ethernet, three SATA II, and six RS-232 serial port connectors
5. TPM V1.2 hardware security function support by TPM module
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

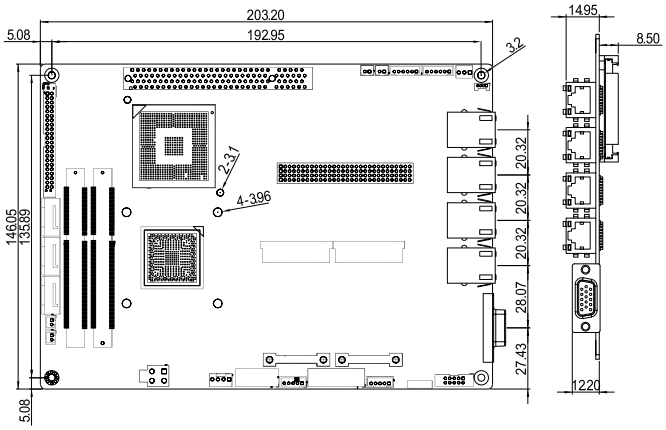
Specifications

- CPU
  Intel® Dual Core Atom™ D525 Processor 1.8GHz/1MB L2 cache
  Intel® Sinle Core Atom™ D425 Processor 1.8GHz / 512KB L2 cache
- System Chipset
  Intel® ICH8M
- BIOS
  UEFI BIOS
- Memory
  Two 204-pin 800MHz DDR3 SDRAM SO-DIMMs supported (System max. 4GB) for D525/D425
- Ethernet
  Four PCIe Realtek RTL8111E GbE controller,LAN1 with ASF2.0 support
- Graphic
  GMA 3150
  Graphic core speed 400MHz for D525/ D425
- I/O Interface

4 x RS-232	2 x RS-232/422/485 with Auto Flow control
8 x USB2.0	2 x SATA II
1 x LPT	1 x IDE
1 x CF Type II	1 x 6-pin header for KB/MS

- Expansion
  1 x PCI-104
  2 x PCIe Mini card slot, one support IEI mini DOM
  1 x PCI
- Digital I/O
  16-bit digital I/O, 8-bit input / 8-bit output
- Infrared Interface
  1x 5-pin Infrared Interface by pin header
- Super IO
  Fintek F81865
- Display Interface
  Analog CRT up to 2048x1536 for D525/ D425
  Support for CRT hot plug
  18-bit single-channel LVDS, resolution support up to WXGA 1366x768 or XGA 1024x768
  24-bit dual-channel LVDS by Novatek 68667UFG, resolution support up to 1920x1080
- Audio
  Realtek ALC 888 HD codec
- Watchdog Timer
  Software programmable support 1~255 sec. system reset
- TPM
  2 x 10-pin pinheader
- SMBus
  1 x 4-pin wafer
- DC connector
  1 x 4-pin CPU fan connector
  1 x 3-pin system fan connector
  2pcs 1 x 2-pin wafer for SATA power 5V connector
- Power Supply
  12V only
- Power Consumption
  12V@1.46A (Intel® Atom™ D525 1.8GHz with DDR3 1GB*2)
- 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
  203 mm x 146 mm
- Weight
  GW: 1000g / NW: 400g

Dimensions (mm)



Packing List

1 x NOVA-PV-D4251/D5251 single board computer	
1 x KB/MS Y cable (P/N: 32000-023800-RS)	
1 x VGA cable (P/N: 32000-033804-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	
1 x Quad RS-232 cable (PN: 32200-025401-RS)	
1 x SATA with Power cable kit (P/N: 32801-000201-100-RS)	
1 x USB cable (PN: 32000-070301-RS)	1 x Mini jumper pack
1 x QIG	1 x Utility CD

Ordering Information

Part No.	Description
NOVA-PV-D5251-G4-R10	5.25" SBC, Intel® Dual Core Atom™ D525 1.8GHz, DDR3, 18 bits LVDS/ VGA, Dual PCIe Mini, Quad PCIe GbE, USB2.0, SATAII, audio, RoHS
NOVA-PV-D4251-G2L2-R10	5.25" SBC, Intel® Dual Core Atom™ D425 1.8GHz, DDR3, 18+48-bits LVDS/ VGA, Dual PCIe Mini, Dual PCIe GbE, USB2.0, SATAII, audio, RoHS
NOVA-PV-D5251-G2L2-R10	5.25" SBC, Intel® Dual Core Atom™ D525 1.8GHz, DDR3,18+48 bits LVDS/ VGA, Dual PCIe Mini, Dual PCIe GbE,USB2.0, SATAII, audio, RoHS
32200-000009-RS	44 pin 2.5" IDE cable
32200-015100-RS	LPT cable
32205-000300-100-RS	RS-232/422/485 cable
19FTS00032100-000001-RS	CPU fan
TPM-IN01-R11	20-pin INFINEON TPM Module, S/W management Tool, Firmware V3.17