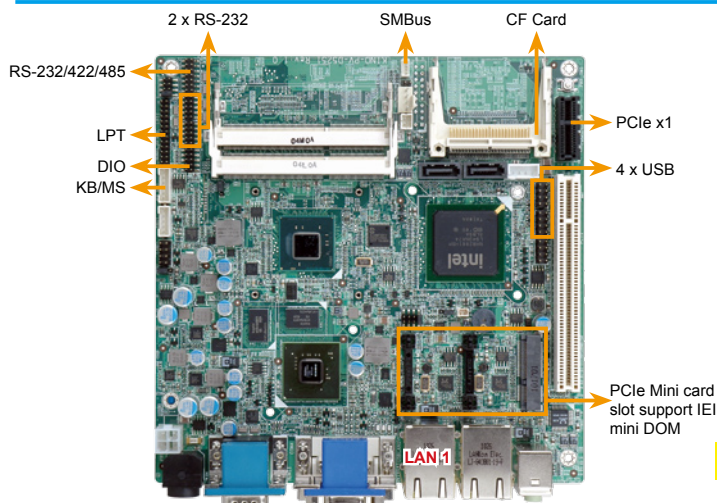


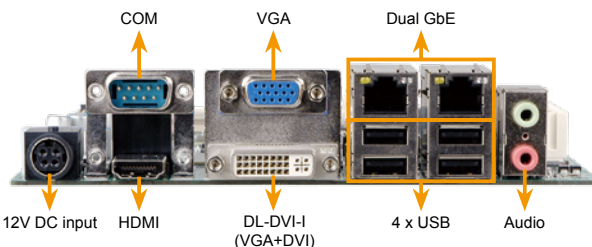
# KINO-PVN-D4251 D5251

Mini ITX SBC with Intel® Atom™ D425/D525, VGA/ DVI-DL/HDMI by Nvidia GT218, Dual GbE, Audio, USB 2.0 and SATA II, RoHS



**Best Graphic engine by Nvidia GT218 with on board 512MB DDR3 memory**

- HDMI support up to 1080p
- Dual Link DVI-I support up to 2560x1600



## Specifications

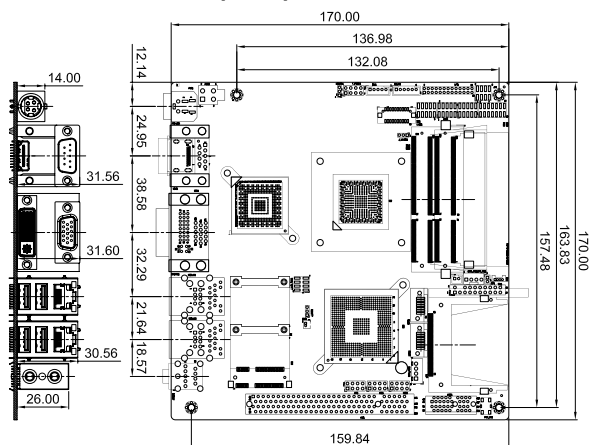
- CPU
  - Intel® Atom™ D525 dual-core processor (1.8GHz/1MB L2 cache)
  - Intel® Atom™ D425 single-core processor (1.8GHz/512K L2 cache)
- Chipset
  - ICH8M
- BIOS
  - UEFI BIOS
- Memory
  - Two 204-pin 800MHz DDR3 SDRAM SO-DIMMs supported (System max. 4GB) for D525/D425
- Graphic
  - Nvidia GT218
- Display Interface
  - Dual display supported by HDMI+VGA/ HDMI+DVI / VGA+DVI/ VGA+VGA (by DVI to VGA adaptor)
  - Analog CRT support by Nvidia GT218 with up to 2048x1536 resolution
  - Support CRT hot plug
  - Dual Link DVI-I support by Nvidia GT218 with DDR3 512MB memory, resolution support up to 2560x1600
  - HDMI supported by Nvidia GT218, Resolution up to 1080p
- Ethernet
  - Dual PCIe GbE by Realtek RTL8111E, LAN1 with ASF2.0 support
- I/O Interfaces
 

3 x RS-232	1 x RS-232/422/485 with Auto Flow control	
1 x LPT	1 x KB/MS	
2 x SATA II	8 x USB 2.0	1 x CF Type II
- SMBus
  - 1 x 4-pin wafer connector
- Digital I/O
  - 8-bit digital I/O, 4-bit input / 4-bit output
- Expansion
  - 1 x PCI slot
  - 1 x PCIe x1 slot
  - 1 x PCIe Mini card slot (PCIe + USB + SATA signal) support IEI mini DOM
- Audio
  - Realtek ALC 888 HD codec
- Watchdog Timer
  - Software programmable support 1~255 sec. system reset
- Power Supply
  - 12V, AT/ATX power mode
  - 1 x external DIN 4pin DC jack
  - 1 x internal 2x2pin power connector
- Super IO
  - Fintek F81865
- Fan Connector
  - 1 x 4-pin CPU fan connector
  - 1 x 3-pin system fan
- Power Consumption
  - 12V@2.42A (Intel® Atom™ D525 1.8GHz with DDR3 1333MHz 1GB\*2 DIMM)
- Temperature
  - Operation: -20°C ~ 60°C
- Humidity
  - Operation: 5% ~ 95% non-condensing
- Dimensions
  - 170mm x 170mm
- Weight
  - GW: 900g / NW: 360g

## Features

1. Mini ITX form factor with Intel® Atom™ D525/D425 processor
2. 12V single voltage design for AT/ATX Power
3. Two expansion DDR3 800MHz SO-DIMM slot support to 4GB
4. Excellent graphic engine support VGA, Dual Link DVI-I, HDMI by Nvidia GT218 for dual independent display support
5. Complete I/O with eight USB, three SATA II, one CF II, one LPT, four COM and Audio
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Dimensions (mm)



## Packing List

1 x KINO-PVN-D4251/D5251 single board computer	
1 x RS-232 cable with bracket (P/N: 19800-000300-100-RS)	
1 x SATA with 5V output cable Kit (P/N: 32801-000100-100-RS)	
1 x I/O shielding (P/N: 45014-0032C0-00-RS)	1 x QIG
1 x SATA cable (P/N: 32000-062800-RS)	1 x Mini jumper pack
1 x DVI to VGA Adaptor (P/N: 33Z00-000031-RS)	1 x Utility CD

## Ordering Information

Part No.	Description
KINO-PVN-D5251-R10	Mini ITX SBC with Intel® Atom™ D525 1.8GHz/1MB L2 cache, DDR3, VGA/ DVI-I DL/ HDMI by Nvidia GT218, Dual GbE, audio, USB 2.0 and SATA II, RoHS
KINO-PVN-D4251-R10	Mini ITX SBC with Intel® Atom™ D425 1.8GHz/512KB L2 cache, DDR3, VGA/ DVI-I DL/ HDMI by Nvidia GT218, Dual GbE, audio, USB 2.0 and SATA II, RoHS
32000-0023800-RS	PS2 KB/MS cable
32100-192900-RS	One 4-pin(2x2) to one 4-pin(1x4) DC power cable with terminal block
32200-015100-RS	LPT cable
19800-000110-RS	RS-232/422/485 cable with bracket
CB-USB02-RS	Dual port USB cable