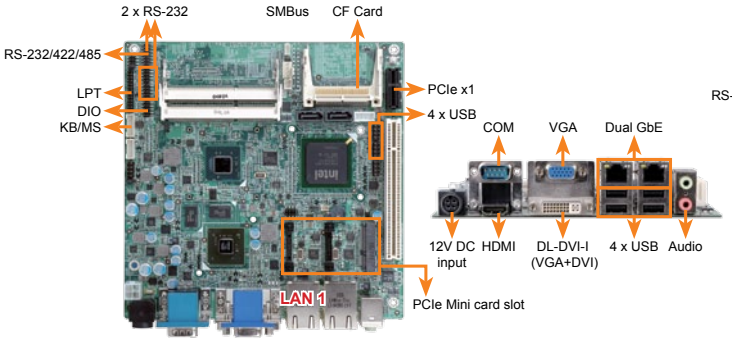
KINO-PVN-D4251/D5251

Mini-ITX SBC with Intel® Atom™ D425/D525, VGA/DVI-DL/HDMI by Nvidia GT218-ION, Dual GbE, Audio, USB 2.0 and SATA 3Gb/s, RoHS



Features

1. Mini-ITX form factor with Intel® Atom™ D525/D425 processor
2. 12V single voltage input designed for AT/ATX power
3. Two 800MHz DDR3 SO-DIMM slots support up to 4GB memory
4. Excellent graphics engine supports VGA, dual-link DVI-I, HDMI by Nvidia GT218-ION for dual independent display
5. Complete I/O with eight USB, two SATA 3Gb/s, one CF Type II, one LPT, four COM and audio
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- CPU
  Intel® Atom™ D525 dual-core processor (1.8GHz/1MB L2 cache)
  Intel® Atom™ D425 single-core processor (1.8GHz/512KB L2 cache)
- Chipset: ICH8M
- BIOS: UEFI BIOS
- Memory
  Two 204-pin 800MHz DDR3 SDRAM SO-DIMMs supported (system max. 4GB) for D525/D425
- Graphic
  On-board NVIDIA GT218-ION graphics chip with 512MB DDR3 memory
- Display Interface
  Dual display supported
  1 x VGA
  1 x HDMI
  1 x DVI-I
- Ethernet
  Dual PCIe GbE by Realtek RTL8111E, LAN1 with ASF 2.0 support
- Digital I/O
  8-bit digital I/O, 4-bit input/4-bit output
- I/O Interfaces
  1 x LPT 8 x USB 2.0
  1 x KB/MS 2 x SATA 3Gb/s
  3 x RS-232 1 x CF Type II
  1 x RS-232/422/485 with auto flow control
- SMBus
  1 x 4-pin wafer connector
- Expansion
  1 x PCI slot 1 x PCIe x1 slot
  1 x PCIe Mini card slot
- Audio
  Realtek ALC888 HD Audio codec
- Watchdog Timer
  Software programmable supports 1~255 sec. system reset
- Power Supply
  12V, AT/ATX power mode
  1 x External 4-pin DIN DC jack
  1 x Internal 4-pin (2x2) power connector
- Super IO: Fintek F81865
- Fan Connector
  1 x 4-pin CPU fan connector
  1 x 3-pin system fan connector
- Power Consumption
  12V@3.44A (Intel® Atom™ D525 1.8GHz with two 1333MHz 2GB DDR3 DIMM)
  12V@3.11A (Intel® Atom™ D425 1.8GHz with two 1333MHz 2GB DDR3 DIMM)
- Operating Temperature
  -10°C ~ 60°C
- Operating Humidity
  5% ~ 95%, non-condensing
- Dimensions: 170mm x 170mm
- Weight: GW: 900g/NW: 360g

Packing List

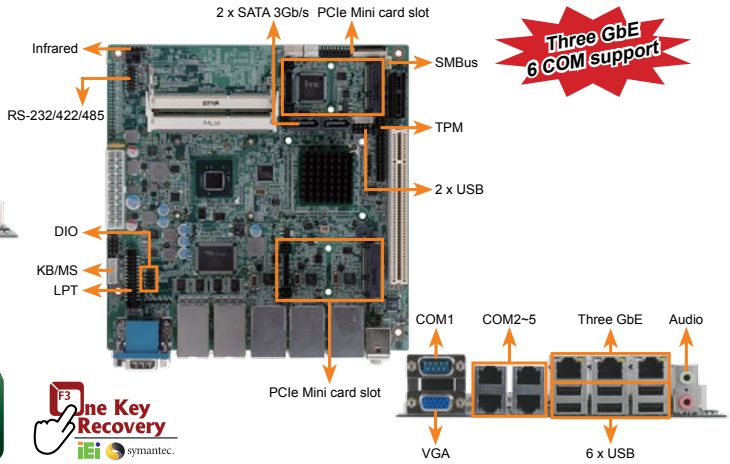
1 x KINO-PVN-D4251/D5251 single board computer	
1 x SATA with 5V/12V output cable kit (P/N: 32801-000100-100-RS)	
1 x SATA with 5V output cable kit (P/N: 32801-000201-100-RS)	1 x One Key Recovery CD
1 x RS-232 cable with bracket (P/N: 19800-000300-100-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45014-0032C0-00-RS)	1 x QIG
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 3Gb/s, 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 3Gb/s, 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
19800-004300-100-RS	RS-232/422/485 cable with bracket
19800-003100-200-RS	Dual-port USB cable
PCIER-K101L-R10	PCIe x1 riser card
19FFD124010HB2A7-000001-RS	CPU fan
34000-000510-RS	30mm higher heatsink

KINO-PV-D4253/D5253

Mini-ITX SBC supports Intel® Atom™ D525/D425, DDR3, VGA, three GbE, six COM, USB 2.0 and SATA 3Gb/s, RoHS



Features

1. Mini-ITX form factor with Intel® Atom™ D525/D425 processor
2. Two 800MHz DDR3 SO-DIMM slots support up to 4GB
3. Compliant with 1U chassis
4. Three GbE LAN with ASF 2.0 support
5. Complete I/O with eight USB, two SATA 3Gb/s, one LPT, six COM and audio

Specifications

- CPU
  Intel® Atom™ D525 dual-core processor 1.8GHz/1MB L2 cache
  Intel® Atom™ D425 single-core processor 1.8GHz/512KB L2 cache
- Chipset: ICH8M
- BIOS: UEFI BIOS
- Memory: 2 x 800MHz DDR3 SO-DIMM up to 4GB
- Graphic: GMA 3150
- Display Interface
  Analog CRT up to 2048x1536, CRT hotplug supported
- Ethernet
  Three PCIe GbE by Realtek RTL8111E with ASF 2.0 support
- I/O Interfaces
  1 x LPT 1 x KB/MS pin header
  2 x SATA 3Gb/s 8 x USB 2.0
  4 x RS-232 (RJ-45) 1 x RS-232 (DB-9)
  1 x RS-232/422/485 (pin header)
- SMBus: 1 x 4-pin wafer connector
- TPM: 2 x 10-pin header
- Digital I/O: 8-bit digital I/O, 4-bit input/4-bit output
- Expansion
  1 x PCI Slot
  1 x PCIe x1 slot
  2 x PCIe Mini card slot
- Audio: Realtek ALC888 HD Audio codec
- Watchdog Timer
  Software programmable supports 1~255 sec. system reset
- Power Supply
  AT/ATX power supply support
- Super IO
  Fintek F81865
- Fan Connector
  1 x 4-pin CPU fan connector
  1 x 3-pin system fan connector
- Power Consumption
  12V@0.76A, 5V@2.62A (Intel® Atom™ D525 1.8GHz wiht two 1333MHz 1GB DDR3 DIMM)
- Operating Temperature
  -10°C ~ 60°C
- Operating Humidity
  5% ~ 95%, non-condensing
- Dimensions: 170mm x 170mm
- Weight: GW: 900g/NW: 360g

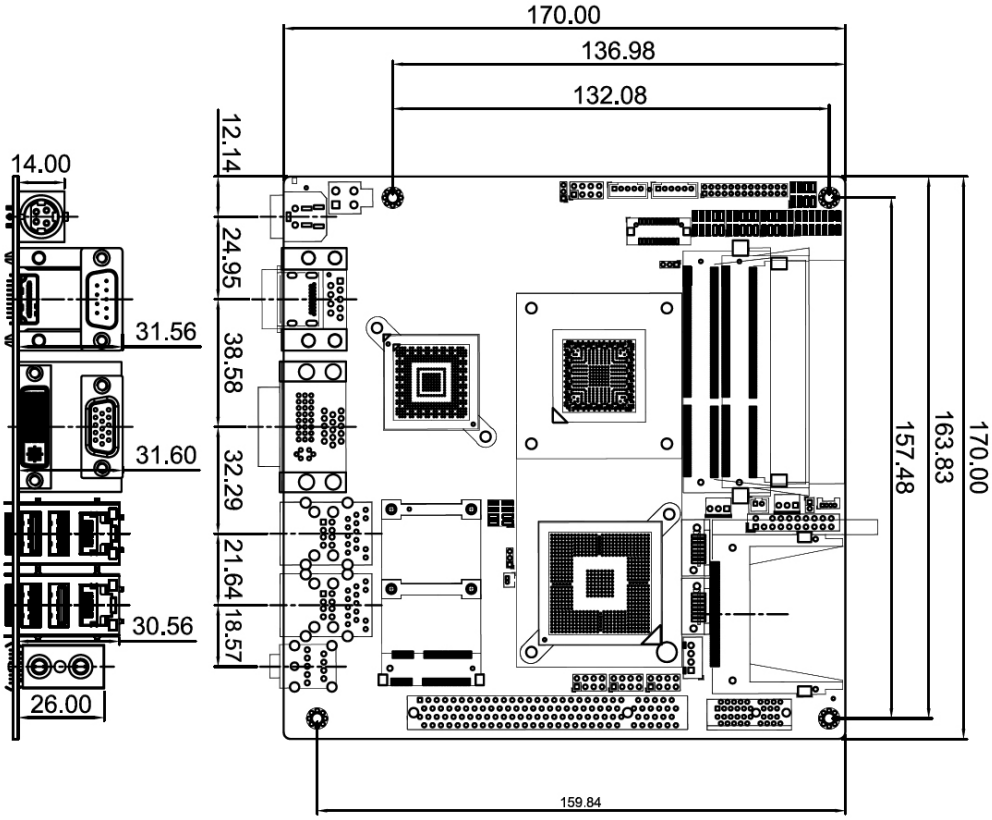
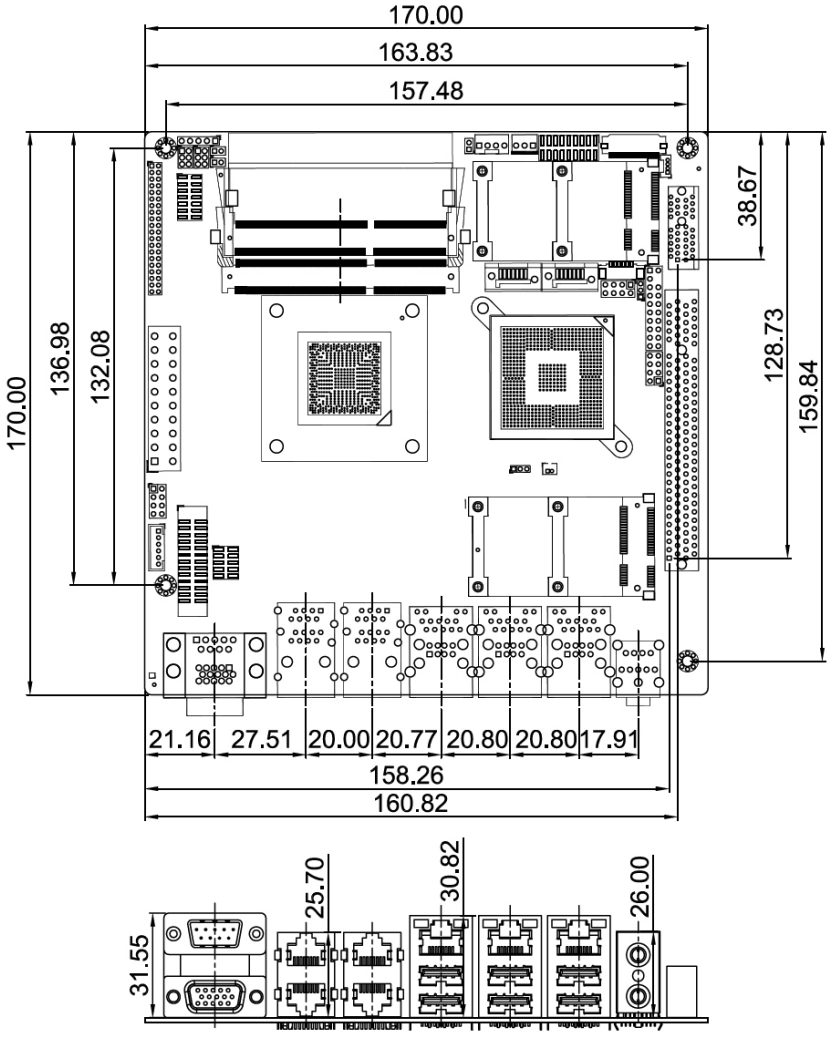
Packing List

1 x KINO-PV-D4253/D5253 single board computer	
1 x SATA cable (P/N: 32801-000703-200-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45014-0036C0-00-RS)	1 x QIG
1 x One Key Recovery CD	1 x Utility CD

Ordering Information

Part No.	Description
KINO-PV-D5253-R10	Mini-ITX SBC with Intel® Atom™ D525 1.8GHz, DDR3, VGA, 6 COM, 3 GbE, dual PCIe Mini, SATA 3Gb/s, and audio
KINO-PV-D4253-R10	Mini-ITX SBC with Intel® Atom™ D425 1.8GHz, DDR3, VGA, 6 COM, 3 GbE, dual PCIe Mini, SATA 3Gb/s, and audio
32000-0023800-RS	PS2 KB/MS cable
32102-000100-200-RS	SATA power cable
32200-015100-RS	LPT cable
32005-000200-100-RS	RJ-45 to RS-232 cable
19800-003100-200-RS	Dual USB port with bracket
PCIER-K101L-R10	PCIe x1 riser card
19800-004300-100-RS	RS-232/422/485 cable
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17
19FFD124010HB2A7-000001-RS	CPU fan
34000-000510-RS	30mm higher heatsink

KINO-PVN-D4251/D5251 (Unit: mm)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