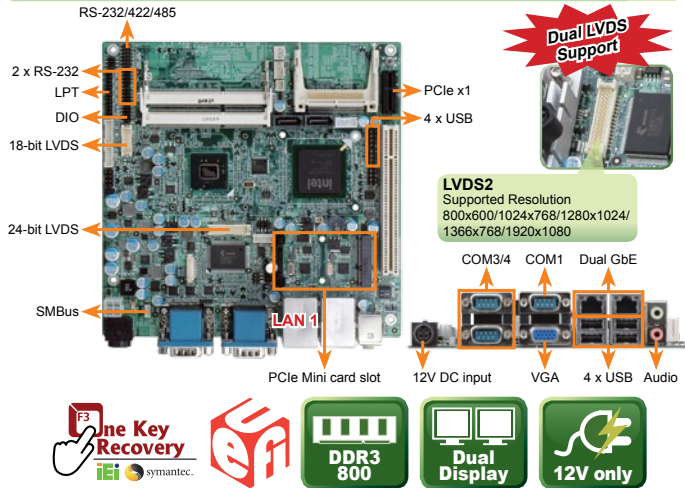


# KINO-PV-D4252/D5252

Mini-ITX SBC with Intel® Atom™ D425/D525, DDR3, VGA/18+48-bit LVDS, Dual GbE, Audio, USB 2.0 and SATA 3Gb/s, RoHS



## Features

1. Mini-ITX SBC with Intel® Atom™ D525/D425 processor
2. Support 800MHz DDR3 SO-DIMM socket (system max. 4GB)
3. Support 24-bit dual-channel LVDS with up to 1920x1080 resolution
4. Complete I/O with eight USB, two SATA 3Gb/s, one CF Type II, six COM and audio
5. 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
  - GMA 3150
  - Graphic core speed 400MHz for D525/D425
- ◆ Display Interface
  - Analog CRT up to 2048x1536 for D525/D425
  - Support CRT hotplug
  - 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
- ◆ Ethernet
  - Dual GbE by Realtek RTL8111E, LAN1 with ASF 2.0 support
  - SMBus: 1 x 4-pin wafer connector
  - Super IO: Fintek F81865
  - Audio: Realtek ALC888 HD Audio codec
- ◆ Expansion
  - 1 x PCI slot
  - 1 x PCIe x1 slot
  - 1 x PCIe Mini card slot
- ◆ Digital I/O: 8-bit digital I/O, 4-bit input/4-bit output
- ◆ I/O Interfaces
  - 5 x RS-232
  - 1 x LPT
  - 2 x SATA 3Gb/s
  - 8 x USB 2.0
  - 1 x CF Type II
  - 1 x 6-pin header for KB/MS
  - 1 x RS-232/422/485 (COM2) with Auto Flow control
- ◆ 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
- ◆ TPM (Optional)
  - On-board Infineon SLB9635TT1.2
- ◆ Fan Connector
  - 1 x 4-pin CPU fan
  - 1 x 3-pin system fan
- ◆ Power Consumption
  - 12V@1.95A (Intel® Atom™ D525 1.8GHz with two 1GB DDR3)
- ◆ Operating Temperature
  - 10°C ~ 60°C
- ◆ Operating Humidity
  - 5% ~ 95%, non-condensing
- ◆ Weight: GW: 800g/NW: 340g

## Packing List

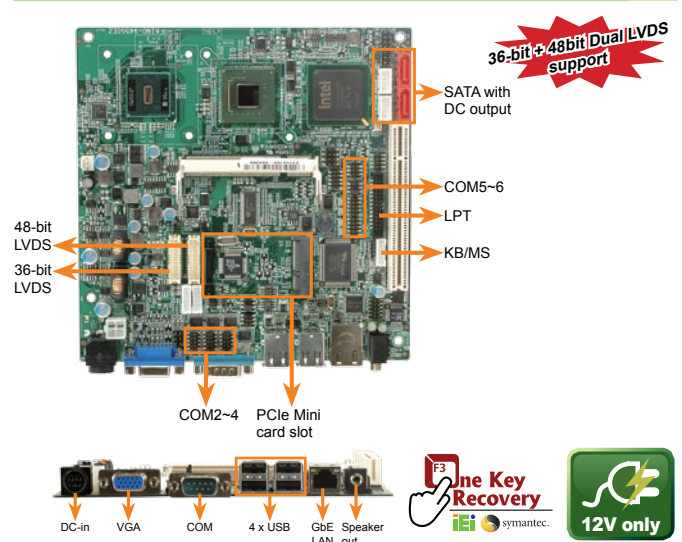
1 x KINO-PV-D4252/D5252 single board computer	
1 x RS-232 cable with bracket (P/N: 19800-000300-100-RS)	
1 x SATA with power cable (P/N: 32801-000100-100-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45014-0024C0-01-RS)	1 x QIG
1 x One Key Recovery CD	1 x Utility CD

## Ordering Information

Part No.	Description
KINO-PV-D5252-L2-R10	Mini-ITX SBC with Intel® Atom™ D525 1.8GHz, DDR3, VGA/18+48 bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, RoHS
KINO-PV-D5252T-L2-R10	Mini-ITX SBC with Intel® Atom™ D525 1.8GHz, DDR3, VGA/18+48 bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, TPM, RoHS
KINO-PV-D4252-R10	Mini-ITX SBC with Intel® Atom™ D425 1.8GHz, DDR3, VGA/18-bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, RoHS
KINO-PV-D4252T-R10	Mini-ITX SBC with Intel® Atom™ D425 1.8GHz, DDR3, VGA/18-bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, TPM, 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
19FFD124010HB2A7-000001-RS	CPU fan
PCIER-K101L-R10	PCIe x1 riser card
34000-000510-RS	30mm higher heatsink

# KINO-945GSE2

Mini-ITX SBC with 1.6GHz Intel® Atom™ N270, DC 12V input, VGA/36-bit + 48-bit LVDS/HDTV, Dual PCIe GbE, USB 2.0, SATA and Audio



## Features

1. 1.6GHz Intel® Atom™ N270 processor with fanless support
2. One 400/533MHz DDR2 SO-DIMM socket supports up to 2GB memory
3. One PCIe Mini card and one PCI slot for expansion
4. 36-bit and 48-bit LVDS support dual display outputs
5. Single voltage 12V DC input
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU
  - 1.6GHz Intel® Atom™ N270 processor with a 533MHz FSB
- ◆ System Chipset
  - Intel® 945GSE+ICH7M
- ◆ BIOS
  - AMI BIOS
- ◆ Memory
  - One 200-pin 400/533MHz DDR2 SDRAM SO-DIMM supported (system max. 2GB)
- ◆ Ethernet
  - 1 x Realtek PCIe RT81111CP GbE controller
- ◆ I/O Interface
  - 6 x USB 2.0
  - 2 x SATA with DC power
  - 1 x RS-232 DB-9
  - 3 x RS-232
  - 2 x RS-232/422/485
  - 1 x LPT
  - 1 x 6-pin box header (2.0mm pitch) for KB/MS
- ◆ Graphic
  - Intel® Graphics Media Accelerator 950
- ◆ Display Output
  - VGA integrated in Intel® 945GSE
  - Support HDTV resolution up to 1080i by component interface
  - 18-bit dual-channel LVDS by Intel® 945GSE
  - 24-bit dual-channel LVDS by Chrontek CH7308B
- ◆ Expansion
  - 1 x PCI
  - 1 x PCIe Mini card
- ◆ Digital I/O
  - 8-bit digital I/O, 4-bit input/4-bit output
- ◆ Infrared Interface
  - 1 x Infrared interface by pin header
- ◆ Super IO
  - Fintek 81865
- ◆ Audio
  - Realtek ALC655 AC'97 codec
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ DC Connector
  - Two 4-pin 5V power connectors (mainly for 2.5" HDD used)
- ◆ Power Supply
  - Single voltage 12V DC input
  - 1 x External 4-pin DIN DC jack
  - 1 x Internal 4-pin (2x2) power connector
- ◆ Power Consumption
  - 1.73A@12V (Intel® Atom™ N270 1.6GHz with 2GB DDR2)
- ◆ Operating Temperature
  - 0°C ~ 60°C
- ◆ Operating Humidity
  - 5% ~ 95%, non-condensing
- ◆ Dimensions
  - 170mm x 170mm
- ◆ Weight
  - GW: 1000g/NW: 350 g

## Packing List

1 x KINO-945GSE2 single board computer	
2 x SATA 5V power output cable (P/N: 32801-000100-100-RS)	
1 x Dual RS-232 cable (P/N: 19800-000112-RS)	
1 x I/O shielding (P/N: 45014-0031C0-00-RS)	
1 x KB/MS Y cable (P/N: 32000-023800-RS)	1 x Mini jumper pack
1 x Audio cable (P/N: 32000-072100-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

## Ordering Information

Part No.	Description
KINO-945GSE2-N270-R10	Mini-ITX SBC with Intel® Atom™ N270 1.6G, 12V DC input, VGA/18+24-bit LVDS/HDTV, PCIe GbE, USB 2.0, SATA and Audio
19800-003100-200-RS	Dual USB cable
32100-192900-RS	One 4-pin (2x2) to one 4-pin (1x4) DC power cable with terminal block
32200-015100-RS	LPT cable
63000-FSP0601AD101C746-RS	60W/12V power adaptor 90VAC~260VA, 4-pin DIN

# KINO-PV-D4252/D5252 (Unit: mm)

