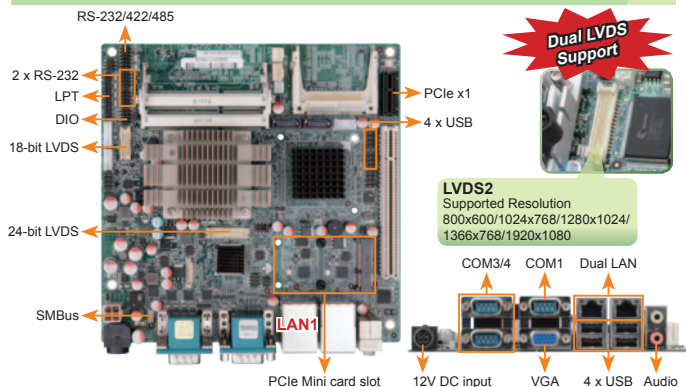


# KINO-PV-D4252/D5252

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



**LVDS2**  
Supported Resolution  
800x600/1024x768/1280x1024/  
1366x768/1920x1080



## Features

- Mini-ITX SBC with Intel® Atom™ D525/D425 processor
- Support 800MHz DDR3 SO-DIMM socket (system max. 4GB)
- Support 24-bit dual-channel LVDS with up to 1920x1080 resolution
- Complete I/O with eight USB, two SATA 3Gb/s, one CF Type II, six COM and audio
- 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 68660UFG, resolution support up to 1920x1080
- ◆ Ethernet  
LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support  
LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ SMBus: 1 x 4-pin wafer connector
- ◆ Super I/O: Fintek F81865
- ◆ Audio: Realtek ALC662-GR 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
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 10% ~ 95%, non-condensing
- ◆ Weight: GW: 800g/NW: 340g

## Packing List

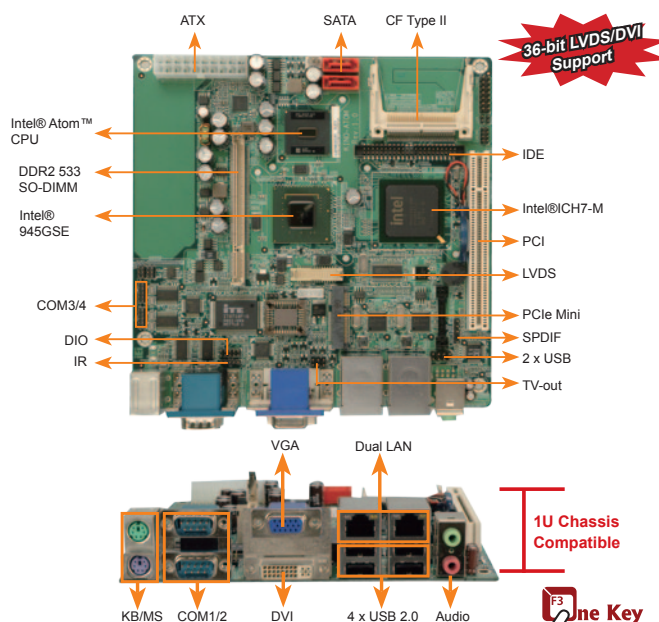
1 x KINO-PV-D4252/D5252 single board computer	
1 x RS-232 cable with bracket (P/N: 19800-000300-100-RS)	
1 x SATA with power cable (P/N: 32801-000100-300-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45014-0024C0-01-RS)	1 x QIG
1 x One Key Recovery CD	1 x Utility CD

## Ordering Information

Part No.	Description
KINO-PV-D5252-L2-R11	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-D4252-R11	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
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
19800-003100-300-RS	Dual-port USB cable
19FFD124010HB2A7-000001-RS	CPU fan
PCIER-K101L-R10	PCIe x1 riser card
34000-000510-RS	30mm higher heatsink

# KINO-945GSE-R12

Mini-ITX SBC with Intel® Atom™ N270 1.6G, VGA/DVI/TV, Dual PCIe GbE, USB 2.0, SATA and Audio



## Features

- Intel® Atom™ processor N270 1.6GHz with ultra low voltage fanless support
- 400/533MHz DDR2 SO-DIMM memory support up to 2GB
- Dual display support by VGA + DVI-D, LVDS + VGA, LVDS + DVI-D
- Support PCIe Mini slot and PCI slot for expansion
- Support six USB 2.0, two SATA, four COM
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU  
Intel® Atom™ processor N270 1.6GHz with a 533MHz FSB
- ◆ System Chipset  
Intel® 945GSE + ICH7M
- ◆ BIOS  
AMI BIOS
- ◆ Memory  
One 200-pin 400/533 DDR2 SDRAM SO-DIMM supported (system max. 2GB)
- ◆ Ethernet  
Dual LAN: Realtek PCIe 8111CP GbE controller
- ◆ I/O Interface  
6 x USB 2.0 2 x SATA  
1 x CF Type II 3 x RS-232  
1 x RS-232/422/485 1 x IDE  
2 x PS/2 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  
DVI-D supported by silicon image Sil1362
- ◆ 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 by pin header
- ◆ Super I/O  
ITE IT8718F
- ◆ Audio  
Realtek ALC655 AC'97 codec
- ◆ Watchdog Timer  
Software programmable supports 1~255 sec. system reset
- ◆ Power Supply  
AT/ATX power support
- ◆ Power Consumption:  
2.89A@5V, 0.04A@12V  
(Intel® Atom™ N270 with 1GB DDR2)
- ◆ Operating Temperature  
KINO-945GSE-N270-R11:  
Operation: 0°C ~ 60°C (32°F ~ 140°F)  
Storage: -20°C ~ 70°C  
KINO-945GSE-N270W-R11:  
Operation: -20°C ~ 70°C  
Storage: -30°C ~ 80°C
- ◆ Humidity Operating  
10% ~ 95%, non-condensing
- ◆ Dimensions  
170mm x 170mm
- ◆ Weight: GW: 1100g/NW: 370g

## Packing List

1 x KINO-945GSE single board computer	
1 x Dual RS-232 cable (P/N: 19800-000112-RS)	
1 x I/O shielding (P/N: 45014-0008C0-00-RS)	1 x Mini jumper pack
2 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

## Ordering Information

Part No.	Description
KINO-945GSE-N270-R12	Mini-ITX SBC with Intel® Atom™ N270 1.6G, VGA/DVI/TV, Dual PCIe GbE, USB 2.0, SATA and Audio
KINO-945GSE-N270W-R12	Mini-ITX SBC with Intel® Atom™ N270 1.6G, VGA/DVI/TV, Dual PCIe GbE, USB 2.0, SATA and Audio, -20~70°C
19800-003100-300-RS	Dual USB cable
32102-000100-200-RS	SATA power cable
32200-000009-RS	44-pin 2.5" IDE cable
32200-833600-RS	RS-422/485 cable