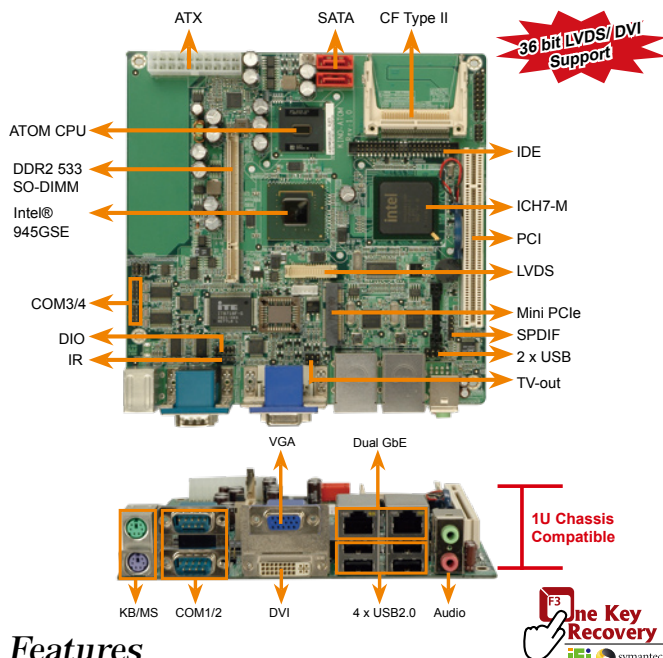


## KINO-945GSE-R11

Mini-ITX SBC with Intel® Atom™ N270 1.6G, VGA/DVI/TV, Dual PCIe GbE, USB2.0, SATA and Audio



## Features

1. Intel® Atom™ processor N270 1.6GHz with ultra low voltage fan-less support
2. DDR2 400/533 SO-DIMM memory support up to 2GB
3. Dual display support by VGA + DVI-D, LVDS + VGA, LVDS + DVI-D
4. Support PCIe Mini card, PCI slot for expansion
5. Support six USB 2.0, two SATA, four COM
6. 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 Realtek PCIe 8111CP GbE chipsets
- ◆ I/O Interface  
6 x USB2.0      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 support by silicon image SiI1362
- ◆ 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 IO  
ITE IT8718F
- ◆ Audio  
Realtek ALC655 AC'97 codec
- ◆ Watchdog Timer  
Software programmable support 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)
- ◆ 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
- ◆ Humidity  
Operation: 5% ~95% non-condensing
- ◆ Dimensions  
170mm x 170mm
- ◆ Weight  
GW: 1100g / NW: 370 g

## Packing List

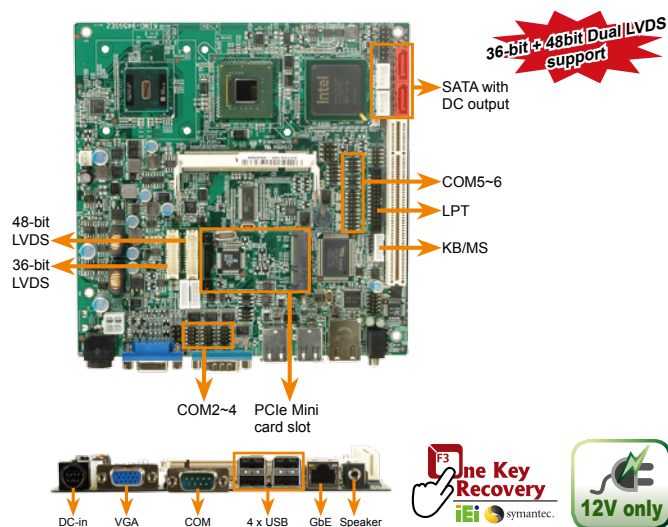
|                                              |                      |
|----------------------------------------------|----------------------|
| 1 x KINO-945GSE single board computer        |                      |
| 1 x Dual RS-232 cable (P/N: 19800-000112-RS) |                      |
| 1 x I/O shielding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

## Ordering Information

| Part No.              | Description                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| KINO-945GSE-N270-R11  | Mini-ITX SBC with Intel® Atom™ N270 1.6G, VGA/DVI/TV, Dual PCIe GbE, USB2.0, SATA and Audio           |
| KINO-945GSE-N270W-R11 | Mini-ITX SBC with Intel® Atom™ N270 1.6G, VGA/DVI/TV, Dual PCIe GbE, USB2.0, SATA and Audio, -20~70°C |
| CB-USB02-RS           | Dual USB cable                                                                                        |
| HDTVCAABLESET-01      | HDTV cable set with S-Video, composite and component interfaces                                       |
| 32102-000100-200-RS   | SATA power cable                                                                                      |
| 32200-000009-RS       | 44pin 2.5" IDE cable                                                                                  |
| 32200-833600-RS       | RS-422/485 cable                                                                                      |

## KINO-945GSE2

Mini-ITX SBC with 1.6GHz Intel® Atom™ N270, DC 12V input, VGA/ 36-bit + 48-bit LVDS/HDTV, Dual PCIe GbE, USB2.0, SATA and Audio



## Features

1. 1.6GHz Intel® Atom™ N270 processor for fan-less 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 DC 12V 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 RT8111CP 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  
On 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 Chrontel 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 support 1~255 sec. system reset
- ◆ DC connector  
2pcs 1 x 4-pin 5V power connector (Major for 2.5" HDD used)
- ◆ Power Supply  
Single voltage 12V DC input  
1 x External 4-pin (2x2) DC jack  
1 x Internal 4-pin (2x2) power connector
- ◆ Power Consumption  
1.73A@12V  
(Intel® Atom™ N270 1.6GHz with 2GB DDR2)
- ◆ Temperature Operation:  
KINO-945GSE2-N270-R10: 0°C ~ 60°C  
KINO-945GSE2-N270W-R10: -20°C ~ 70°C
- ◆ Humidity  
Operation: 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 kit (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 Audio cable (P/N: 32000-072100-RS)                        | 1 x Mini jumper pack |
| 1 x Utility 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 bits LVDS/HDTV, PCIe GbE, USB2.0, SATA and Audio           |
| KINO-945GSE2-N270W-R10    | Mini-ITX SBC with Intel® Atom™ N270 1.6G, 12V DC input, VGA/ 18+24 bits LVDS/HDTV, PCIe GbE, USB2.0, SATA and Audio, -20~70°C |
| CB-USB02-RS               | Dual USB cable                                                                                                                |
| HDTVCAABLESET-01          | HDTV cable set with S-Video, composite and component Interfaces                                                               |
| 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                                                                                  |