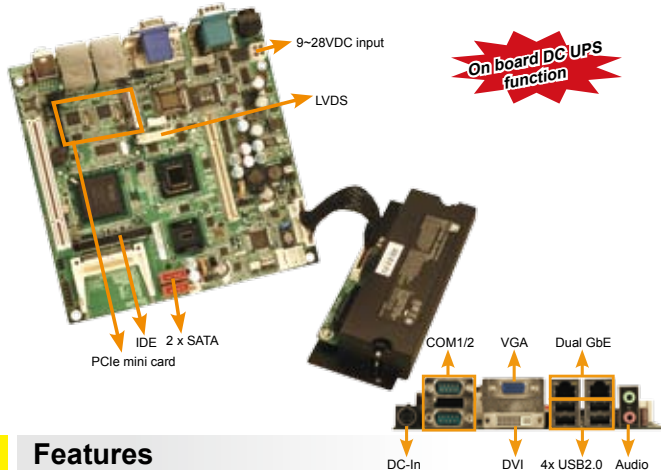


# eKINO-945GSE

Mini-ITX SBC with AUPS sub-system, Intel® Atom™ N270 1.6GHz, Wide range 9-28VDC input, VGA/DVI/HDTV



## Features

1. Intel® Atom™ N270 1.6GHz for ultra low voltage fan-less support
2. Wide range 9-28V DC input
3. Equipped with AUPS sub-system acts as a simple UPS system
4. Dual-display supported by VGA + DVI-D, LVDS + VGA, LVDS + DVI-D
5. IBX 600 Embedded System
6. Support 6 x USB2.0, 2 x SATA, 4x COM

## Specifications

- ◆ CPU  
Intel® Atom™ Processor N270 1.6GHz with 533 MHz FSB 512K L2 Cache
- ◆ System Chipset  
Intel® 945GSE + Intel® ICH7M
- ◆ BIOS  
AMI BIOS
- ◆ Memory  
One 200-pin 400/533 DDR2 SDRAM SO-DIMM supported (system max. 2GB)
- ◆ Ethernet  
Dual Realtek PCIe 8111CP GbE controller
- ◆ I/O Interface  
6 x USB2.0 3 x RS-232  
1 x IDE 2 x SATA with 5V DC output  
1 x RS-232/422/485 1 x 6-pin header for KB/MS
- ◆ Graphic  
On Intel® Graphics media accelerator 950 (Intel® GMA 950)
- ◆ Display Output  
VGA integrated in Intel® 945GSE  
Support HDTV resolution up to 1080i by component interface  
18-bits dual-channel LVDS by Intel® 945GSE  
DVI-D support by silicon image Sil1362
- ◆ Expansion  
1x PCI, 1x PCIe mini card
- ◆ DC connector  
2pcs 1 x 4-pin 5V power connector (Major for 2.5" HDD used)
- ◆ Digital I/O  
8-bits digital I/O, 4-bits input/ 4-bits output
- ◆ Infrared Interface  
1x 5-pin pin header
- ◆ SSD  
1 x CF Type II
- ◆ Super IO  
ITE IT8718F
- ◆ Audio  
Realtek ALC655 AC'97 Codec
- ◆ Watchdog Timer  
Software programmable supports 1~255 sec. system reset
- ◆ Power Supply  
Maximum input voltage range 9V~28V  
Recommend operating input voltage range 12V~24V  
1 x external DIN 4-pin DC jack  
1 x internal 2 x 2-pin power connector
- ◆ Power Consumption  
12V@1A (Intel® Atom™ N270 with 1GB DDR2)
- ◆ Temperature  
Operation: 0°C ~ 40°C with AUPS sub-system  
Operation: 0°C ~ 60°C without AUPS sub-system  
Storage: -20°C ~ 70°C
- ◆ Humidity  
Operation: 5% ~95% non-condensing
- ◆ Dimensions:  
170mm x 170mm
- ◆ Weight: GW: 1100g / NW: 400 g

## Packing List

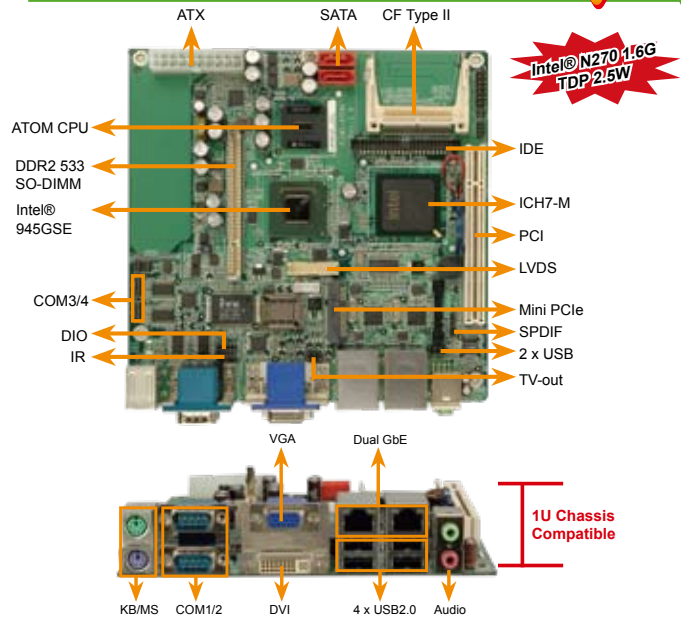
1 x eKINO-945GSE single board computer	
2 x SATA 5V power output Cable Kit (P/N: 32000-106100-RS)	
1 x I/O shielding (P/N: 45014-0023C0-00-RS)	
1 x KB/MS Y cable (PN:32000-023800-RS)	
1 x Mini Jumper Pack	
1 x Utility CD	1 x QIG

## Ordering Information

Part No.	Description
eKINO-945GSE-N270-R10	Mini-ITX SBC with AUPS sub-system, Intel® Atom™ N270 1.6GHz, wide range 9-28VDC input, VGA/DVI/HDTV
CB-USB02-RS	Dual USB cable
HDTV/CABLESET-01	HDTV cable set with S-Video, composite and component interfaces
WMPCIE-V01-R10	PCIe mini card wireless LAN module
BATKIT-2S2P3800-R10	2S2P 7.4V 3800mAH aups battery kit
BAT-LI-2S2P3800	2S2P 7.4V 3800mAH smart battery
BATKIT-4S2P3800-R10	4S2P 14.8V 3800mAH aups battery kit
BAT-LI-4S2P3800	4S2P 14.8V 3800mAH smart battery
63000-FSP0601AD101C746-RS	60W/12V power adaptor 90VAC~260VAC, DIN 4-pin
63000-FSP120AAB-RS	120W/19V power adaptor, 90VAC~264VAC, DIN 4-pin
32200-000009-RS	44pin 2.5" IDE cable
32100-192900-RS	One 4-pin(2 x 2) to one 4-pin(1 x 4) DC power cable with terminal block
19800-000112-RS	Dual RS-232 cable
32200-833600-RS	RS-422/485 cable

# KINO-945GSE

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 1.6G for 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 6x USB2.0, 2x SATA, 4x COM

## Specifications

- ◆ CPU  
Intel® Atom™ Processor N270 1.6GHz with a 533MHz FSB
- ◆ System Chipset  
Intel® 945GSE + ICH7M
- ◆ BIOS  
AMI BIOS Label
- ◆ 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 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 IO  
ITE IT8718F
- ◆ Audio  
Realtek ALC655 AC'97 codec
- ◆ Watchdog Timer  
Software programmable support 1~255 sec. system reset
- ◆ Power Supply  
ATX power support
- ◆ Power Consumption:  
5V@2.89A, 12V@0.04A (Intel® Atom™ N270 with 1GB DDR2)
- ◆ Temperature:  
Operation: 0°C~60°C (32°F~140°F)  
Storage: -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)	
2 x SATA cable (P/N: 32000-062800-RS)	
1 x I/O shielding (P/N: 45014-0008C0-00-RS)	
1 x Mini jumper pack	
1 x Utility CD	1 x QIG

## Ordering Information

Part No.	Description
KINO-945GSE-N270-R10	Mini-ITX SBC with Intel® Atom™ N270 1.6G, VGA/DVI/TV, Dual PCIe GbE, USB2.0, SATA and Audio
KINO-945GSE-N270W-R10	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
HDTV/CABLESET-01	HDTV cable set with S-Video, composite and component interfaces
32100-088600-RS	SATA power cable
32200-000009-RS	44pin 2.5" IDE cable
32200-833600-RS	RS-422/485 cable