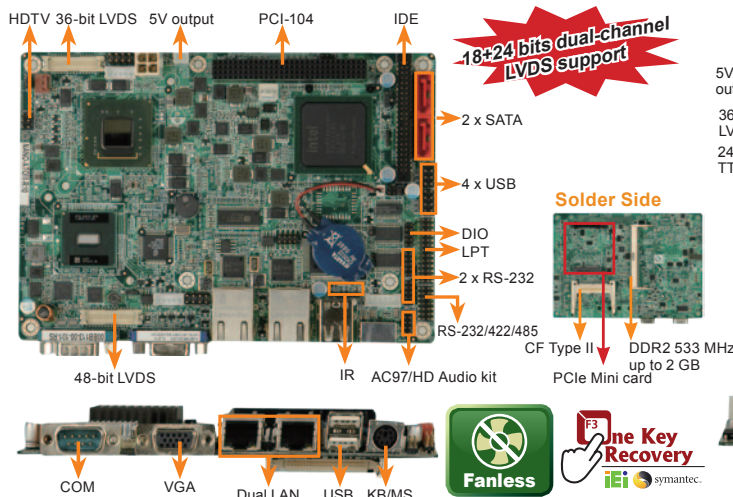


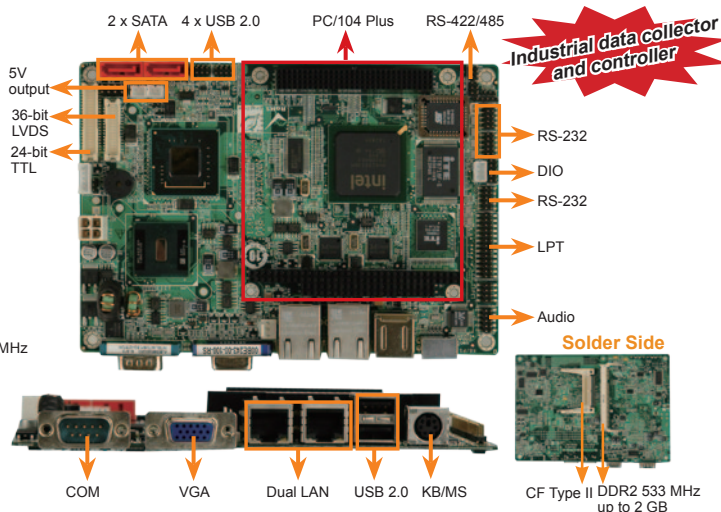
# NANO-945GSE-R20

EPIC SBC with Intel® Atom™ Processor, VGA/Dual LVDS/Dual PCIe GbE, CF Type II, SATA



# NANO-945GSE2

EPIC SBC with Intel® Atom™ Processor, VGA/LCD/Dual PCIe GbE, CF Type II, SATA, PC/104-Pus



## Features

- Intel® Atom™ processor N270 1.6GHz CPU for ultra low voltage fanless support
- Single 12V power input, 5V output for SATA device
- Dual LVDS supports dual independent display
- Support four COM, six USB, two SATA
- Support PCIe Mini card, PCI-104 for expansion
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU: 1.6 GHz Intel® Atom™ N270 (1.6GHz, single-core, 512KB cache)
- ◆ Chipset: Intel® 945GSE, Intel® 82801 GBM/ICH7M
- ◆ BIOS: AMI BIOS
- ◆ System Memory: One 200-pin 533 MHz DDR2 SDRAM SO-DIMM slot supports up to 2 GB
- ◆ Ethernet: Dual LAN: Realtek RTL8111E PCIe GbE controller
- ◆ I/O Interface: 1 x CF Type II, 1 x RS-232/422/485, 1 x IDE, 2 x SATA, 1 x LPT, 3 x RS-232, 1 x PS/2 for KB/MS, 6 x USB 2.0
- ◆ Infrared Interface: 1 x Infrared Interface (1x5 pin)
- ◆ Expansions: 1 x PCI-104 (PCI Bus), 1 x Full-size PCIe Mini card slot
- ◆ Super IO: ITE IT8718
- ◆ Digital I/O: 1 x 8-bit digital I/O (2x5 pin)
- ◆ Audio: 5.1-channel audio kit with Realtek ALC655 AC'97 codec, 7.1-channel HD Audio kit with Realtek ALC888 codec supports dual audio stream
- ◆ Display Output: VGA (up to QXGA 2048x1536@60Hz), 18-bit dual-channel LVDS (up to UXGA 1600x1200@60Hz), 18/24-bit dual-channel LVDS (up to 1920x1200@60Hz)
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset by super I/O
- ◆ Power Supply: 1 x Internal power connector (2x2 pin), 12V only DC input, support AT/ATX mode
- ◆ Power Consumption: 12W@1.53A (Intel® Atom™ N270 with one 2 GB 533 MHz DDR2 memory)
- ◆ Operating Temperature: 0°C ~ 60°C (NANO-945GSE-N270-R20), -20°C ~ 70°C (NANO-945GSE-N270W-R20)
- ◆ Storage Temperature: -30°C ~ 80°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 165 mm x 115 mm
- ◆ Weight: GW: 700g NW 350g

## Packing List

1 x NANO-945GSE single board computer	2 x SATA cable
1 x KB/MS cable	1 x Mini jumper pack
1 x Power cable	1 x One Key Recovery CD
2 x RS-232 cable	1 x QIG, 1 x Utility CD

## Ordering Information

Part No.	Description
NANO-945GSE-N270-R20	EPIC SBC with Intel® Atom™ processor N270 1.6 GHz, VGA/18-bit dual-channel LVDS, dual GbE, CF Type II, USB, SATA
NANO-945GSE-N270W-R20	EPIC SBC with Intel® Atom™ processor N270 1.6 GHz, VGA/18-bit dual-channel LVDS, dual GbE, CF Type II, USB, SATA, -20~70°C
32000-044300-RS	Dual port USB cable, 210mm, P=2.54
32010-000700-100-RS	HDTV out cable, 200mm
32102-000100-200-RS	SATA power cable, 150mm, P=5.08
32102-022200-100-RS	ATX power cable, 300mm
32200-000009-RS	44-pin 2.5" IDE cable
32200-015100-RS	LPT cable, 280mm, P=2.0
32200-026500-RS	RS-232/422/485 cable, 290mm, P=2.0
32221-001700-100-RS	44-pin to 2.5"/3.5" IDE cable
32801-000201-300-RS	SATA 5V power output cable kit for NANO series
AC-KIT08R-R10	5.1-channel AC'97 audio kit with realtek ALC655 codec
AC-KIT-892HD-R10	7.1-channel HD Audio kit with realtek ALC888 codec support dual audio stream

## Features

- 1.6 GHz Intel® Atom™ N270 CPU with ultra low voltage fanless support
- Single 12V power input, 5V output for SATA device
- Dual display supported by VGA+LVDS, VGA+TTL
- Support four COM, six USB, two SATA and CF Type II socket
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU: 1.6 GHz Intel® Atom™ N270 (1.6GHz, single-core, 512KB cache)
- ◆ Chipset: Intel® 945GSE, Intel® 82801 GBM/ICH7M
- ◆ BIOS: AMI BIOS
- ◆ System Memory: One 200-pin 533 MHz DDR2 SDRAM SO-DIMM slot supports up to 2 GB
- ◆ Ethernet: Dual LAN: Realtek PCIe 8111CP GbE controller
- ◆ I/O Interface: 1 x CF Type II, 2 x SATA, 1 x LPT, 3 x RS-232, 1 x PS/2 for KB/MS, 6 x USB 2.0, 1 x RS-232/422/485 (RS-232, RS-422/485 shared with COM3)
- ◆ Infrared Interface: 1 x Infrared Interface (1x5 pin)
- ◆ Expansion: 1 x PC/104-Plus
- ◆ Super IO: ITE IT8718
- ◆ Digital I/O: 1 x 8-bit digital I/O (2x5 pin)
- ◆ Audio: Realtek ALC655 with AC'97 codec
- ◆ Display Output: Intel® Graphics media accelerator 950 VGA (up to 2048x1536@60Hz), 18-bit dual-channel LVDS (up to 1600x1200@60Hz), 24-bit TTL
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset by super I/O
- ◆ Power Supply: 1 x Internal power connector (2x2 pin), 12V only DC input, support AT/ATX mode
- ◆ Power Consumption: 12W@1.45A (Intel® Atom™ processor N270 with one 1 GB 400 MHz DDR2 memory)
- ◆ Operating Temperature: 0°C ~ 60°C (NANO-945GSE2-N270-R10), -20°C ~ 70°C (NANO-945GSE2-N270W-R10)
- ◆ Storage Temperature: -30°C ~ 80°C
- ◆ Operation Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 165 mm x 115 mm
- ◆ Weight: GW: 700g NW 350g

## Packing List

1 x NANO-945GSE2 single board computer	2 x SATA cable
1 x Audio cable	1 x Mini jumper pack
1 x KB/MS cable	1 x One Key Recovery CD
1 x Power cable	1 x QIG
2 x RS-232 cable	1 x Utility CD

## Ordering Information

Part No.	Description
NANO-945GSE2-N270-R10	EPIC SBC with Intel® Atom™ processor N270 1.6 GHz, VGA/LVDS/TTL, dual GbE, CF Type II, USB, SATA and PC/104+
NANO-945GSE2-N270W-R10	EPIC SBC with Intel® Atom™ processor N270 1.6 GHz, VGA/LVDS/TTL, dual GbE, CF Type II, USB, SATA and PC/104+, -20~70°C
32001-008600-200-RS	Dual-port USB cable, 210mm, P=2.0
32102-000100-200-RS	SATA power cable, 150mm, P=5.08
32102-022100-100-RS	ATX power cable, 300mm
32200-015100-RS	LPT cable, 280mm, P=2.0
32200-833600-RS	RS-422/485 cable
32801-000201-300-RS	SATA 5V power output cable kit for NANO series