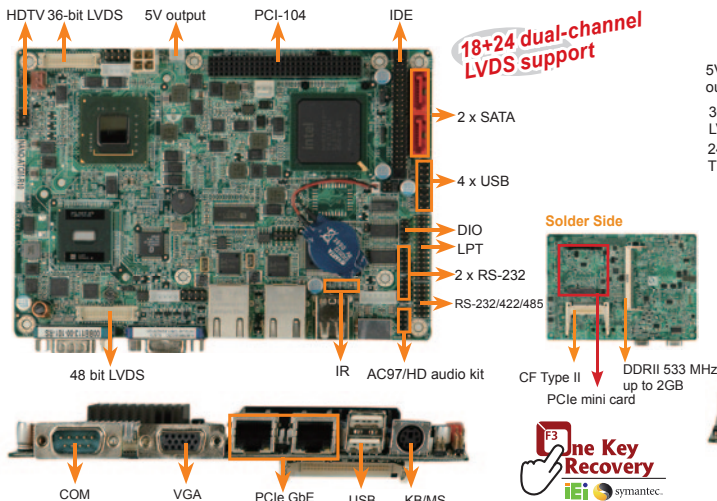


# epic NANO-945GSE-R20

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



## Features

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

## Specifications

- ◆ CPU  
Intel® Atom™ Processor N270 1.6GHz with 533 MHz FSB
- ◆ System Chipset  
Intel® 945GSE  
Intel® 82801GBM / ICH7M
- ◆ BIOS  
AMI BIOS
- ◆ System Memory  
One 200-pin 533MHz DDR2 SDRAM SO-DIMM supported (system max. 2GB)
- ◆ Ethernet  
Dual PCIe Realtek 8111E GbE chipset
- ◆ I/O interface  
6 x USB 2.0  
1 x IDE  
1 x RS-232/422/485  
1 x LPT  
2 x SATA  
3 x RS-232  
1 x PS/2 for KB/MS  
1 x CF Type II
- ◆ Infrared Interface  
1 x Infrared interface by pin header
- ◆ Expansions  
1 x PCI-104 (PCI Bus)  
1 x PCIe mini card
- ◆ Super IO  
ITE IT8718
- ◆ Digital I/O  
8-bit digital I/O, 4-bit input/4-bit output by super I/O
- ◆ 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 streams
- ◆ Display Interface  
Intel® Graphics Media Accelerator 950  
VGA integrated in Intel® 945GSE  
support HDTV resolution up to 1080i by component interface  
Dual LVDS support:  
18 bit dual-channel LVDS integrated in Intel® 945GSE  
18/24 dual-channel LVDS support by Chronitel CH7308B (NANO-945GSELVDS2)
- ◆ Watchdog Timer  
software programmable 1-255 sec. by super I/O
- ◆ Power Supply:  
12V only, AT/ATX support
- ◆ Power Consumption  
12W@1.53A (Intel® Atom™ N270 with 2GB DDR2)
- ◆ Temperature  
Operation: 0°C ~ 60°C (NANO-945GSE-N270-R20)  
Operation: -40°C ~ 85°C (NANO-945GSE-N270W2-R20)  
Operation: -20°C ~ 70°C (NANO-945GSE-N270W-R20)
- ◆ Humidity: operation: 5% ~ 95 non-condensing
- ◆ Dimensions: 165 mm x 115 mm
- ◆ Weight: GW: 700g NW 350g

## Packing List

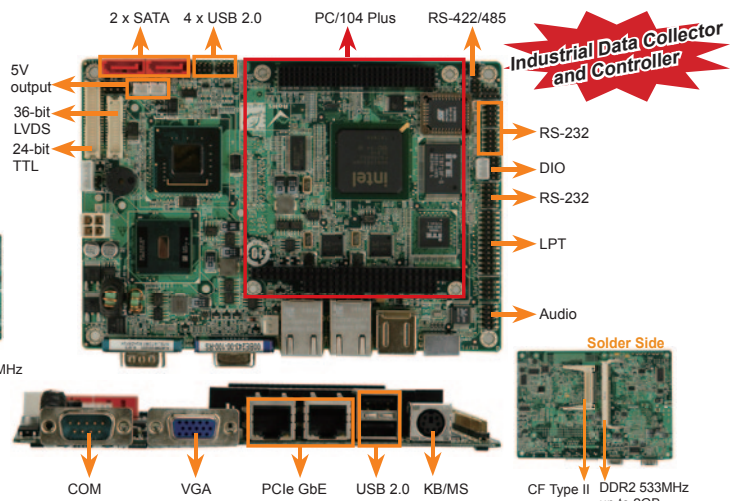
1 x NANO-945GSE-R20 single board computer	2 x RS-232 cable (P/N: 32200-000049-RS)
2 x SATA cable (P/N: 32000-062800-RS)	1 x KB/MS cable (P/N: 32006-000300-100-RS)
1 x Power cable (P/N: 32100-087100-RS)	1 x Mini jumper pack
1 x Utility CD	1 x QIG

## 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, CFII, USB, SATA
NANO-945GSE-N270W2-R20	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18 bit dual-channel LVDS, Dual GbE, CFII, USB, SATA, -40~85°C
NANO-945GSE-N270W-R20	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18 bit dual-channel LVDS, Dual GbE, CFII, USB, SATA, -20~70°C
NANO-945GSELVDS2-N270-R20	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18+24bit dual-channel LVDS, Dual GbE, CFII, USB, SATA
NANO-945GSELVDS2-N270W2-R20	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18+24bit dual-channel LVDS, Dual GbE, CFII, USB, SATA, -40~85°C
NANO-945GSELVDS2-N270W-R20	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18+24bit dual-channel LVDS, Dual GbE, CFII, USB, SATA, -20~70°C
32000-044300-RS	Dual port USB cable
32200-015100-RS	LPT cable
32200-026500-RS	RS-232/422/485 cable
32100-043403-RS	ATX power cable
32010-000700-100-RS	HDTV out cable
32200-000009-RS	44pin 2.5" IDE cable
32200-008800-RS	44pin to 2.5"/3.5" IDE cable
32102-000100-200-RS	SATA power cable
32801-000201-100-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-888HD-R10	7.1 channel HD audio kit with realtek ALC888 codec support dual audio streams

# epic NANO-945GSE2

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



## Features

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

## Specifications

- ◆ CPU  
Intel® Atom™ Processor N270 1.6 GHz with 533MHz FSB
- ◆ System Chipset  
Intel® 945GSE  
Intel® 82801GBM/ICH7M
- ◆ BIOS  
AMI BIOS
- ◆ System Memory  
One 200-pin 533MHz DDR2 SDRAM SO-DIMM supported (system max. 2GB)
- ◆ Ethernet  
Dual PCIe Realtek 8111CP GbE chipset
- ◆ I/O Interface  
6 x USB 2.0  
2 x SATA  
3 x RS-232  
1 x RS-232/422/485  
(RS-232, RS-422/485 shared with COM3)  
1 x PS/2 for KB/MS  
1 x LPT  
1 x CF Type II
- ◆ Infrared Interface  
1 x Infrared Interface by pin header
- ◆ Expansions  
1 x PC/104-Plus
- ◆ Super IO  
ITE IT8718
- ◆ Digital I/O  
8-bit digital I/O, 4-bit input/4-bit output by super I/O
- ◆ Audio  
Realtek ALC655 with AC'97 codec
- ◆ Display Interface  
Intel® Graphics media accelerator 950  
VGA integrated in Intel® 945GSE  
18-bit dual-channel LVDS integrated in Intel® 945GSE  
24-bit TTL (LVDS to TTL)
- ◆ Watchdog Timer  
Software programmable 1-255 sec. by super I/O
- ◆ Power Supply  
12V only, AT/ATX support
- ◆ Power Consumption  
12W@1.45A  
(Intel® Atom™ Processor N270 with 1GB DDR2)
- ◆ Temperature  
Operation: 0°C ~ 60°C (NANO-945GSE2-N270-R10)  
Operation: -20°C ~ 70°C (NANO-945GSE2-N270W-R10)
- ◆ 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 RS-232 cable (P/N: 32200-000049-RS)
2 x SATA cable (P/N: 32000-062800-RS)	1 x Audio cable (P/N: 32000-072100-RS)
1 x Power cable (P/N: 32100-087100-RS)	1 x Mini jumper pack
1 x KB/MS cable (P/N: 32006-000300-100-RS)	1 x Utility CD
	1 x QIG

## Ordering Information

Part No.	Description
NANO-945GSE2-N270-R10	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/LVDS/TTL, Dual GbE, CFII, USB, SATA and PC/104+
NANO-945GSE2-N270W-R10	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/LVDS/TTL, Dual GbE, CFII, USB, SATA and PC/104+, -20~70°C
32000-070301-RS	Dual port USB cable
32200-015100-RS	LPT cable
32200-833600-RS	RS-422/485 cable
32100-052100-RS	ATX power cable
32102-000100-200-RS	SATA power cable
32801-000201-100-RS	SATA 5V power output cable kit for NANO series