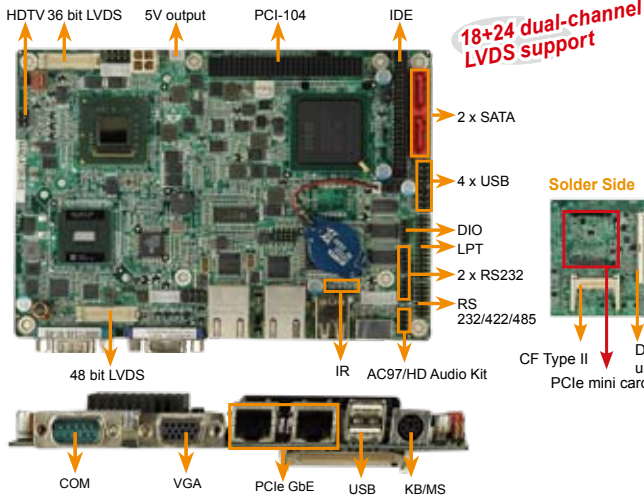


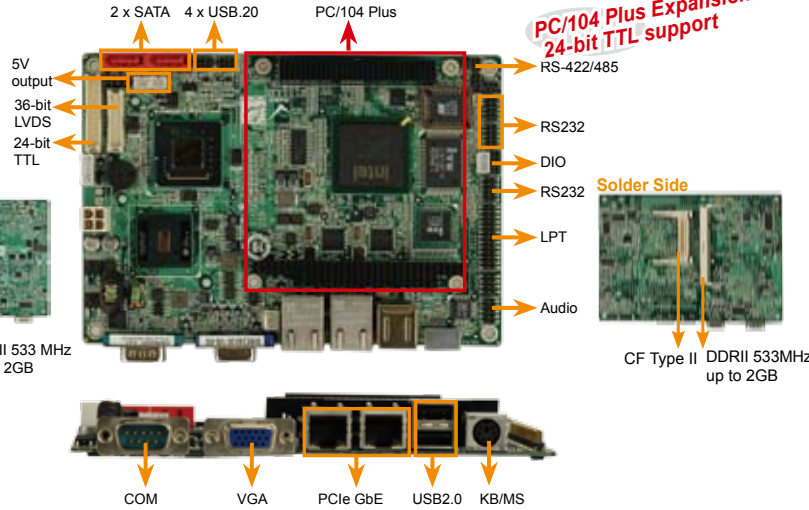
# epic NANO-945GSE

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



# 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™ Processor N270 1.6GHz CPU for Ultra Low Voltage Fan-less support
2. Single 12V power input, Provide 5V output for SATA Device
3. Dual LVDS support dual independent display
4. Support 4 x COM, 6 x USB, 2 x SATA
5. Support PCIe Mini Card, PCI-104 for expansion

## 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 8111CP GbE Chipset
- ◆ I/O interface  
6 x USB 2.0                      2 x SATA  
1 x IDE                              3 x RS-232  
1 x RS-232/422/485              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 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 ALC883 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 intergrated in Intel® 945GSE  
18/24 dual-channel LVDS support by Chronel CH7308B (NANO-945GSELVDS2)
- ◆ Watchdog Timer  
software programmable 1-255 sec. by super I/O
- ◆ Power Supply:  
12V only, AT/ATX support
- ◆ Power Consumption  
12V@1.53A  
(Intel® Atom™ N270 with 2GB DDR2)
- ◆ Temperature  
operation: 0°C~ 60°C (32°F~ 140°F)
- ◆ Humidity: operation: 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 RS-232 cable (P/N: 32200-000049-RS)
2 x SATA cable (P/N: 32000-062800-RS)	1 x KB/MS cable (P/N: 32000-000138-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-R10	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18 bit dual-channel LVDS, Dual GbE, CF, II, USB, SATA
NANO-945GSE-N270W2-R10	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18 bit dual-channel LVDS, Dual GbE, CF, II, USB, SATA, -40~85°C
NANO-945GSE-N270W-R10	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18 bit dual-channel LVDS, Dual GbE, CF, II, USB, SATA, -20~70°C
NANO-945GSELVDS2-N270-R10	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18+24bit dual-channel LVDS, Dual GbE, CF, II, USB, SATA
NANO-945GSELVDS2-N270W2-R10	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18+24bit dual-channel LVDS, Dual GbE, CF, II, USB, SATA, -40~85°C
NANO-945GSELVDS2-N270W-R10	EPIC SBC with Intel® Atom™ Processor N270 1.6 GHz, VGA/18+24bit dual-channel LVDS, Dual GbE, CF, II, 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
32000-083701-RS	HDTV out cable
32200-000009-RS	44pin 2.5" IDE cable
32200-008800-RS	44pin to 2.5"/3.5" IDE cable
32100-088600-RS	SATA power cable
32000-114000-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-KIT883HD-R10	7.1 Channel HD audio kit with realtek ALC883 codec support dual audio streams

## Features

1. Intel® Atom™ N270 1.6GHz CPU for Ultra Low Voltage Fan-less support
2. Single 12V power input, Provide 5V output for SATA Device
3. Dual Display support by VGA+LVDS, VGA+TTL
4. Support 4 x COM, 6x USB, 2x SATA and CF Type II socket

## 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 intergrated 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  
12V@ 1.45A  
(Intel® Atom™ Processor N270 with 1GB DDR2)
- ◆ Temperature  
Operation: 0°C~60°C (32°F~140°F)
- ◆ Humidity  
Operation: 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 KB/MS cable (P/N: 32000-000138-RS)
1 x Power cable (P/N: 32100-087100-RS)	1 x Mini jumper pack
1 x Utility CD	1 x Audio cable (P/N: 32000-072100-RS)
	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, CF, 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, II, 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
32100-088600-RS	SATA power cable
32000-114000-RS	SATA 5V power output cable kit for NANO series

1 Industrial Computing Solutions

2 Embedded Computing Solutions

3 RISC-Based Embedded Solutions

4 Industrial Data Collector/Server Solutions

5 Video Capture Solutions

6 I/O Communication Solutions

7 Panel Solutions

8 Power Supply/Network Communication/Peripherals