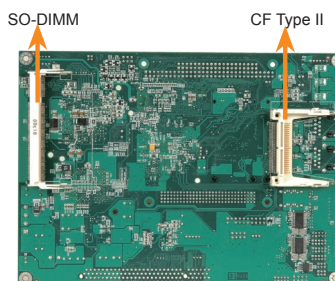
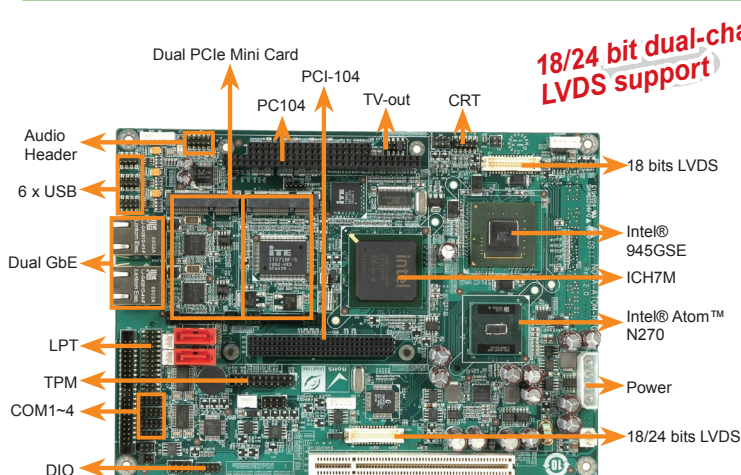


# NOVA-945GSE-R20

5.25" SBC, Intel® Atom™ N270 1.6GHz, LVDS/ VGA/ HDTV, Dual PCIe Mini, Dual PCIe GbE, USB2.0, SATA, RoHS



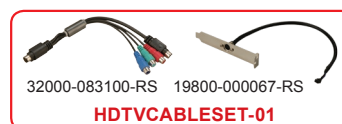
Solder Side



Intel® N270 1.6G  
TDP 2.5W



PCIe Mini Card



HDTVCABLESET-01

## Specifications

- ◆ CPU  
Intel® Atom™ 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 RTL8111CP GbE LAN
- ◆ Graphic  
On Intel® Graphics Media Accelerator 950
- ◆ I/O Interface
  - 3 x RS-232                   1 x RS-232/422/485
  - 6 x USB2.0                2 x SATA with 5V output
  - 1 x LPT                     1 x IDE
  - 1 x 6-pin header for KB/MS
- ◆ Expansion
  - 1 x PC/104+ (ISA+PCI bus)
  - 2 x PCIe mini card
  - 1 x PCI
- ◆ Digital I/O  
8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Infrared Interface  
1x 5-pin Infrared Interface by pin header
- ◆ Super IO  
ITE8718F
- ◆ Display Output  
Analog CRT Support for CRT Hot plug  
Support HDTV by component interface  
18/24 bit dual-channel LVDS by Chronel CH7308B (NOVA-945GSELVDS2-N270-R20)  
18 bit dual-channel LVDS by Intel® 945GSE
- ◆ Audio  
AC'97 ALC655 codec
- ◆ SSD  
CF Type II
- ◆ Watchdog Timer  
Software Programmable support 1~255 sec. System reset
- ◆ TPM  
1x 20pin pinheader
- ◆ Power Supply  
5V only, 12V for LCD/System FAN, AT/ATX Power
- ◆ Power Consumption  
5V@3.49A (Intel® Atom™ N270 with 512MB DDR2)
- ◆ Temperature  
Operation: 0 ~ 60° C (32 ~ 140° F)
- ◆ Humidity  
Operation: 5% ~ 95%, non-condensing
- ◆ Dimensions: 203mm x 146mm
- ◆ Weight: GW:1000g, NW:400g

## Packing List

- 1 x NOVA-945GSE-R20 single board computer
- 1 x VGA cable (P/N: 32000-033804-RS)
- 1 x KB/MS Y cable (P/N: 32000-023800-RS)
- 1 x Audio cable (P/N: 32000-072100-RS)
- 2 x SATA cable (P/N: 32000-062800-RS)
- 4 x RS-232 cable (PN: 32200-000049-RS)
- 1 x USB cable (PN: 32000-070301-RS)
- 1 x Mini jumper pack
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)



DDR2 533

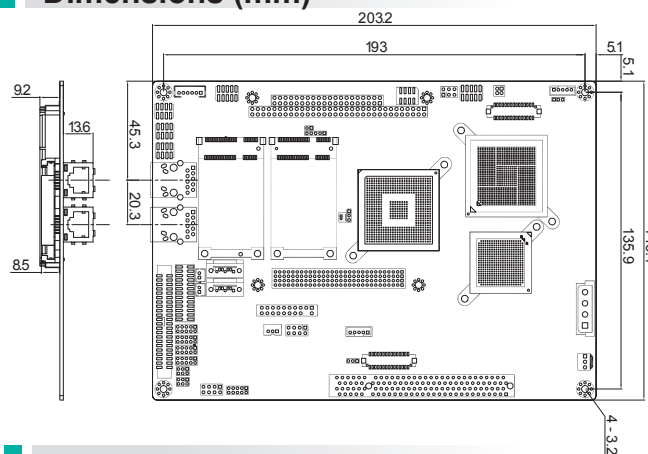
FSB 533



## Features

1. Intel® Atom™ Processor N270 1.6GHz for fanless support
2. DDR2 400/533 SO-DIMM memory support up to 2GB
3. Support dual PCIe mini card/ PCI slot for expansion
4. Dual LVDS support dual display output
5. CF socket for storage expansion
6. TPM support

## Dimensions (mm)



## Ordering Information

Part No.	Description
NOVA-945GSE-N270-R20	5.25" SBC, Intel® Atom™ N270 1.6GHz, 18 bits LVDS/ VGA/ HDTV, Dual PCIe Mini, Dual PCIe GbE, USB2.0, SATA, RoHS
NOVA-945GSELVDS2-N270-R20	5.25" SBC, Intel® Atom™ N270 1.6GHz, 18+24 bits LVDS/ VGA/ HDTV, Dual PCIe Mini, Dual PCIe GbE, USB2.0, SATA, RoHS
HDTVCABLESET-01	HDTV cable set with S-Video, composite and component Interfaces
32200-000009-RS	44pin 2.5" IDE cable
32100-088600-RS	SATA Power cable
32200-015100-RS	LPT cable
WMPCIE-V01-R10	802.11b+g PCIe mini card wireless LAN module with Atheros
WMUSB-V01-R10	802.11b+g USB embedded module with VIA
TPM-WI01-R10	20-pin WINBOND TPM Module, S/W management tool
32200-833600-RS	RS-422/485 cable