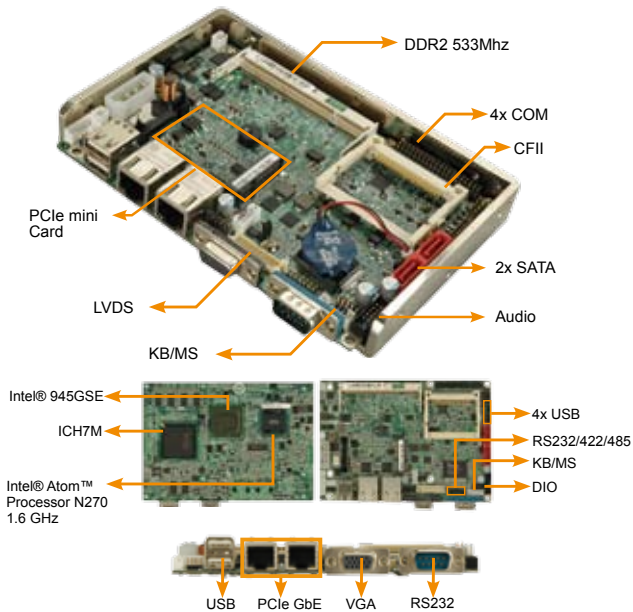


# WAFER-945GSE

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



## Features

1. Intel® Atom™ Processor N270 1.6 GHz CPU for ultra low voltage fan-less support
2. Support Dual display for VGA+LVDS
3. System memory support up to 2GB/DDR2 533 Mhz
4. Support 6 x COM , 6 x USB2.0 , 2 x SATA and CF typeII socket
5. Thermal design for easy assembly

## Specifications

- ◆ CPU  
Intel® Atom™ Processor N270 1.6 GHz with 533 MHz FSB
- ◆ System Chipset  
Intel® 945GSE / Intel® 82801GBM / ICH7M
- ◆ BIOS  
AMI BIOS
- ◆ Memory  
One 200-pin 400/533MHz 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  
5 x RS-232                      1 x RS-232/422/485  
1 x PS/2 for KB/MS      1 x CF Type II
- ◆ Digital I/O  
8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Expansions  
1x PCI express mini card
- ◆ Audio  
Realtek ALC655 with AC'97 codec
- ◆ Display Interface  
Intel® Graphics media accelerator 950 VGA intergrated in Intel® 945GSE  
18-bit dual-channel LVDS intergrated in Intel® 945GSE
- ◆ Power Supply  
5V only, 12V for LCD / System FAN, AT/ATX support
- ◆ Super IO  
ITE IT8718
- ◆ Watchdog Timer  
software programmable 1-255 sec. by super I/O
- ◆ Temperature  
Operation: 0°C ~ 60°C (WAFER-945GSE-N270-R10)  
Operation: -20°C ~ 70°C (WAFER-945GSE-N270W-R10)  
Operation: -40°C ~ 85°C (WAFER-945GSE-N270W2-R10)
- ◆ Humidity  
Operation: 5% ~95 non-condensing
- ◆ Power Consumption  
5V@2.94A  
(Intel® Atom™ N270 1.6G with 1GB DDR2)
- ◆ Dimensions  
146 mm x 102 mm
- ◆ Weight  
GW: 700g / NW 230g

## Packing List

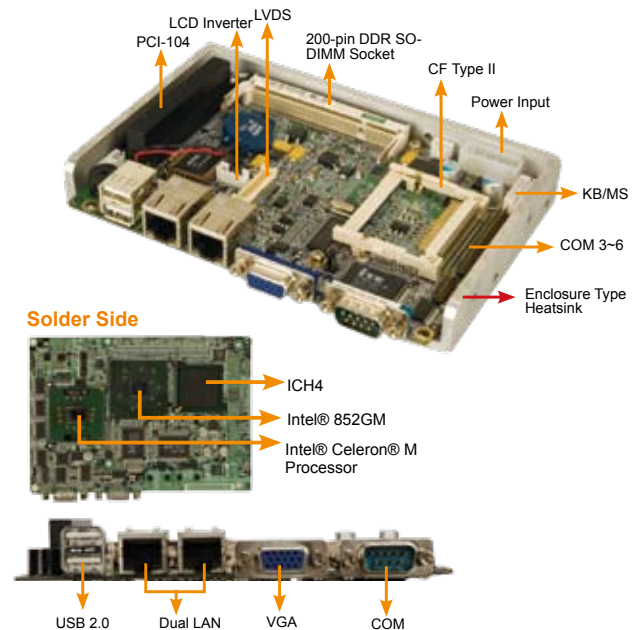
1 x WAFER-945GSE single board computer	
1 x Quad RS-232 cable (P/N: 32200-025401-RS)	
2 x SATA cable (P/N: 32000-062800-RS)	
1 x KB/MS cable (P/N: 32000-023800-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	
1 x Enclosure heatsink	
1 x Mini jumper pack	
1 x Utility CD	1 x QIG

## Ordering Information

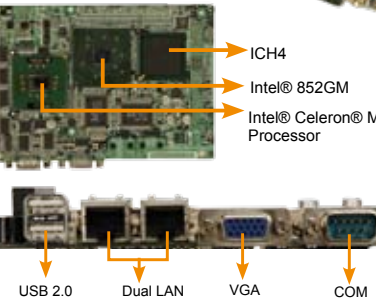
Part No.	Description
WAFER-945GSE-N270-R10	3.5" SBC with Intel® Atom™ Processor N270 1.6G, VGA/LVDS, Dual GbE,CFII, USB, SATA
WAFER-945GSE-N270W-R10	3.5" SBC with Intel® Atom™ Processor N270 1.6G,VGA/LVDS, Dual GbE,CFII,USB,SATA, -20~70°C
WAFER-945GSE-N270W2-R10	3.5" SBC with Intel® Atom™ Processor N270 1.6G,VGA/LVDS, Dual GbE,CFII,USB,SATA, -40~85°C
32000-070301-RS	Dual port USB cable
32200-026500-RS	RS-232/422/485 cable
32100-052100-RS	ATX power cable
32100-088600-RS	SATA power cable
IO-KIT-4COM-R10	4 COM ports adapter board

# WAFER-8522

3.5" SBC, Intel® Pentium® M/ Celeron® M CPU with VGA/LVDS, VGA, Dual GbE, USB 2.0 and Audio



## Solder Side



## Features

1. 3.5" form factor with ULV Intel® Celeron® M CPU
2. CPU and chipset on the solder side easy for system thermal solution
3. DDR266MHz SO-DIMM up to 1GB
4. VGA, 18-bit dual-channel LVDS
5. CF Type II, USB 2.0, 6 x RS-232 and Audio

## Specifications

- ◆ CPU  
On board Intel® Celeron® M 1GHz/600MHz 512KB or 1GHz zero cache processor
- ◆ System Chipset  
Intel® 852GM + ICH4
- ◆ BIOS  
AMI BIOS
- ◆ System Memory  
One 200-pin 266/200MHz DDR SDRAM SO-DIMM supported (system max. 1GB)
- ◆ Ethernet  
Dual Realtek RTL8110SC GbE chipset
- ◆ I/O Interface  
5 x RS-232  
1 x RS-232/422/485  
4 x USB 2.0  
1 x IDE  
1 x PS/2 for KB/MS
- ◆ Expansions  
PCI-104 (PCI Bus)
- ◆ Super I/O  
ITE IT8712F
- ◆ Display Interface  
VGA integrated in Intel® 852GM  
18-bit dual-channel LVDS
- ◆ Audio  
Realtek ALC655 with AC'97 codec
- ◆ SSD  
CF Type II
- ◆ Watchdog Timer  
Software programmable supports 1 ~255 sec. system reset
- ◆ Power Supply  
AT/ATX support  
5V@3.43A, 12V@0.13A  
(Celeron® M 1GHz CPU with 1GB 266 MHz DDR)
- ◆ Temperature  
Operating: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity  
Operating: 5% ~95% non-condensing
- ◆ Dimensions  
146 mm x 102 mm
- ◆ Weight  
GW: 700g / NW: 175g

## Packing List

1 x WAFER-8522 single board computer	
1 x IDE flat cable 44p/44p (P/N: 32200-000009-RS)	
1 x 4 RS-232 adapter cable (P/N: 32200-025401-RS)	
1 x PS/2 KB/MS cable (P/N: 32000-043301-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	
1 x Enclosure heatsink	
1 x Mini jumper pack	
1 x Utility CD	1 x QIG

## Ordering Information

Part No.	Description
WAFER-8522-1GZ-R10	3.5" SBC with ULV Intel® Celeron® 1GHz Zero Cache CPU with VGA/LVDS, Dual GbE, USB 2.0, and audio
WAFER-8522-600-R10	3.5" SBC with ULV Intel® Celeron® 600MHz 512KB Cache CPU with VGA/LVDS, Dual GbE, USB 2.0, and audio
WAFER-8522-1G512-R10	3.5" SBC with ULV Intel® Celeron® 1GHz 512KB Cache CPU with VGA/LVDS, Dual GbE, USB 2.0, and audio
19800-000110-RS	RS-232/422/485 cable
32000-070301-RS	USB cable
IO-KIT-4COM-R10	4 COM ports adapter board