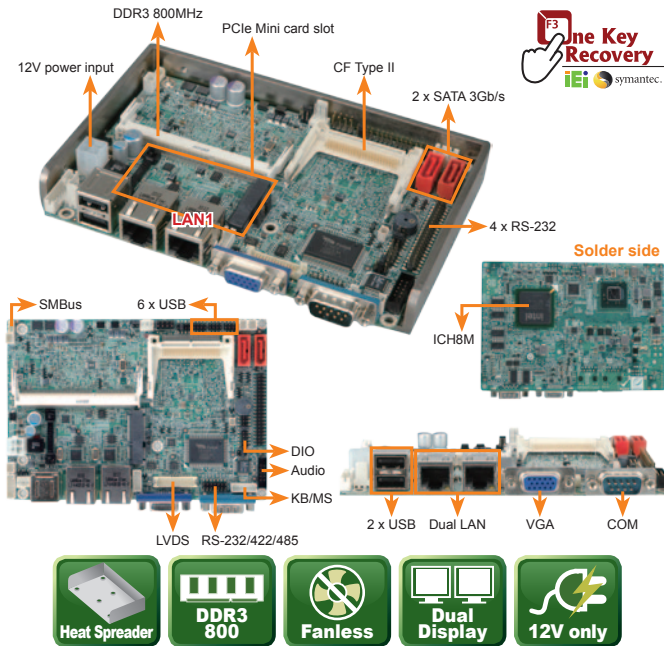


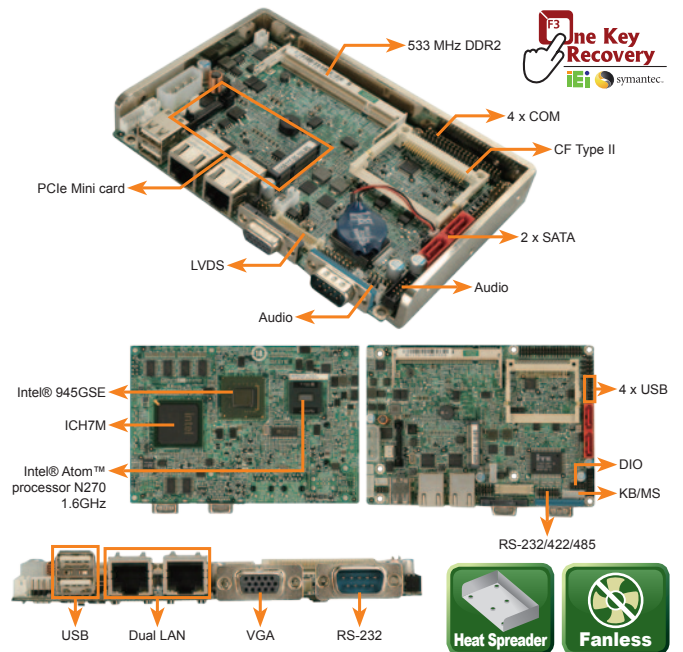
## WAFER-PV-D5252/D4252/N4552

3.5" SBC with Intel® Atom™ D425/N455/D525, DDR3, VGA/LVDS, Dual GbE, USB 2.0 and SATA 3Gb/s, Audio, RoHS



## WAFER-945GSE-R20

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



### Features

1. 3.5" form factor with Intel® Atom™ D525/D425/N455 processor supports DDR3 memory
2. 12V only single voltage design for AT/ATX power
3. Open frame heatsink thermal design for fanless solutions
4. Support VGA and 18-bit single-channel LVDS with dual display support
5. Complete I/O with eight USB, two SATA 3Gb/s, one CF Type II, six COM and audio
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

### Specifications

- ◆ CPU
  - Intel® Atom™ D525 dual-core processor 1.8GHz/1MB L2 cache
  - Intel® Atom™ D425 single-core processor 1.8GHz/512KB L2 cache
  - Intel® Atom™ N455 single-core processor 1.66GHz/512KB L2 cache
- ◆ Chipset: Intel® ICH8M
- ◆ BIOS: UEFI BIOS
- ◆ Memory
  - One 204-pin 800MHz DDR3 SDRAM SO-DIMM supported (system max. 4GB for D525/D425)
  - One 204-pin 800MHz DDR3 SDRAM SO-DIMM supported (system max. 2GB for N455)
- ◆ Graphic
  - GMA 3150
  - Graphic core speed 400MHz for D525/D425
  - Graphic core speed 200MHz for N455
- ◆ Display Interface
  - Analog CRT up to 2048x1536 for D525/D425, 1400x1050 for N455
  - Support for CRT hotplug
  - Single-channel 18-bit LVDS
- ◆ I/O Interfaces
  - 1 x KB/MS
  - 2 x SATA 3Gb/s
  - 8 x USB 2.0
  - 1 x CF Type II
  - 5 x RS-232
  - 1 x RS-232/422/485 with auto flow control
- ◆ Ethernet
  - LAN1: Realtek RTL8111E controllers with ASF2.0 support
  - LAN2: Realtek RTL8111E controllers
- ◆ Digital I/O: 8-bit digital I/O, 4-bit input/4-bit output
- ◆ Expansion
  - 1 x PCIe Mini card slot
- ◆ Audio
  - Realtek ALC662 HD Audio Codec
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset by Super I/O
- ◆ Power Supply
  - 12V only, AT/ATX support
- ◆ Super IO
  - Fintek F81865F
- ◆ Fan Connector
  - 1 x 3-pin CPU fan, 1 x 3-pin system fan
- ◆ SMBus: 1 x 4-pin wafer connector
- ◆ Power Consumption
  - 12V@1.79A (Intel® Atom™ D525 1.8GHz with 1GB DDR3)
- ◆ Operating Temperature
  - 10°C ~ 60°C
- ◆ Storage Temperature
  - 20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Weight: GW: 600g/NW: 250g

### Packing List

1 x WAFER-PV-D5252/D4252/N4552 single board computer	
1 x Audio cable (P/N: 32000-072100-RS)	1 x Heat spreader
1 x KB/MS cable (P/N: 32000-023800-RS)	1 x Mini jumper pack
1 x Power cable (P/N: 32100-087100-RS)	1 x One Key Recovery CD
1 x Quad RS-232 cable (P/N: 32200-025401-RS)	1 x Utility CD
1 x SATA with 5V output cable (P/N: 32801-000201-300-RS)	1 x QIG

### Ordering Information

Part No.	Description
WAFER-PV-D5252-R11	3.5" SBC with Intel® Atom™ D525 1.8GHz, DDR3, VGA/LVDS, dual GbE, USB 2.0 and SATA 3Gb/s, audio, RoHS
WAFER-PV-D4252-R11	3.5" SBC with Intel® Atom™ D425 1.8GHz, DDR3, VGA/LVDS, dual GbE, USB 2.0 and SATA 3Gb/s, audio, RoHS
WAFER-PV-N4552-R11	3.5" SBC with Intel® Atom™ N455 1.66GHz, DDR3, VGA/LVDS, dual GbE, USB 2.0 and SATA 3Gb/s, audio, RoHS
32000-070301-RS	Dual-port USB cable
32200-026500-RS	RS-232/RS-422/485 cable

### Features

1. Intel® Atom™ processor N270 1.6 GHz CPU for ultra low voltage fanless support
2. Support dual display for VGA+LVDS
3. System memory supports up to 2 GB 533 MHz DDR2
4. Support six COM, six USB 2.0, two SATA and CF Type II socket
5. Thermal design for easy assembly
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

### 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 LAN: Realtek RTL8111E controllers with ASF2.0 support
- ◆ I/O Interface
  - 6 x USB 2.0
  - 2 x SATA
  - 5 x RS-232
  - 1 x RS-232/422/485
  - 1 x CF Type II
  - 1 x PS/2 for KB/MS
- ◆ Digital I/O
  - 8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Expansion
  - 1 x PCI Express Mini card
- ◆ Audio
  - Realtek ALC662 with HD Audio codec
- ◆ Display Interface
  - Intel® Graphics Media Accelerator 950
  - VGA integrated in Intel® 945GSE
  - 18-bit dual-channel LVDS integrated 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
- ◆ Operating Temperature
  - 0°C ~ 60°C (WAFER-945GSE-N270-R20)
  - 20°C ~ 70°C (WAFER-945GSE-N270W-R20)
  - 40°C ~ 85°C (WAFER-945GSE-N270W2-R20)
- ◆ Operating Humidity: 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)	
1 x Audio cable (P/N: 32000-072100-RS)	1 x One Key Recovery CD
1 x Heat spreader	1 x Mini jumper pack
1 x KB/MS cable (P/N: 32000-023800-RS)	1 x Utility CD
2 x SATA cable (P/N: 32000-062800-RS)	1 x QIG

### Ordering Information

Part No.	Description
WAFER-945GSE-N270-R20	3.5" SBC with Intel® Atom™ processor N270 1.6G, VGA/LVDS, dual GbE, CF Type II, USB, SATA
WAFER-945GSE-N270W-R20	3.5" SBC with Intel® Atom™ processor N270 1.6G, VGA/LVDS, dual GbE, CF Type II, USB, SATA, -20°C~70°C
WAFER-945GSE-N270W2-R20	3.5" SBC with Intel® Atom™ processor N270 1.6G, VGA/LVDS, dual GbE, CF Type II, USB, SATA, -40°C~85°C
32000-070301-RS	Dual-port USB cable
32200-026500-RS	RS-232/422/485 cable
32102-022100-RS	ATX power cable
32102-000100-200-RS	SATA power cable