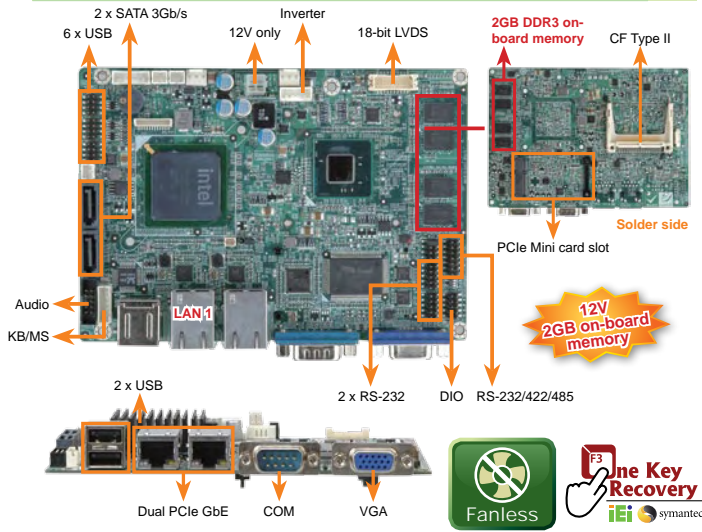


WAFER-PV-D4251/N4551/D5251-R11

3.5" SBC with Intel® Atom™ D425/N455/D525, DDR3 2GB memory on board, VGA/LVDS, Dual GbE, USB 2.0 and SATA 3Gb/s, Audio, RoHS



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. On-board DDR3 800 MHz 2GB SDRAM
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, four 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: ICH8M
- ◆ BIOS: UEFI BIOS
- ◆ Memory
 - On-board DDR3 800MHz 2GB SDRAM
- ◆ 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, resolution support up to WXGA 1366x768 or XGA 1024x768
- ◆ Ethernet
 - Dual GbE by Realtek RTL8111E, LAN1 with ASF 2.0 support
- ◆ I/O Interfaces
 - 3 x RS-232 1 x CF Type II
 - 1 x KB/MS 2 x SATA 3Gb/s
 - 8 x USB 2.0
 - 1 x RS-232/422/485 with Auto Flow control
- ◆ Audio: Realtek ALC888 HD Audio codec
- ◆ Digital I/O
 - 8-bit digital I/O, 4-bit input/4-bit output
- ◆ Expansion
 - 1 x PCIe Mini card slot
- ◆ Watchdog Timer
 - Software programmable supports 1~255 sec. system reset by Super I/O
- ◆ Power Supply
 - 12V input only AT/ATX mode select
 - 4-pin (2x2) power connector
- ◆ Super IO: Fintek F81865
- ◆ Fan Connector
 - 1 x 3-pin CPU fan, 1 x 3-pin system fan
- ◆ Power Consumption
 - 1.7A @ 12V (Intel® Atom™ D525 with 1GB 1066MHz DDR3)
 - 1.52A @ 12V (Intel® Atom™ D425 with 1GB 1066MHz DDR3)
 - 1.33A @ 12V (Intel® Atom™ N455 with 1GB 1066MHz DDR3)
- ◆ Operating Temperature
 - 10°C ~ 60°C
- ◆ Operating Humidity
 - 5% ~ 95%, non-condensing
- ◆ Dimensions
 - 146 mm x 102 mm
- ◆ Weight
 - GW: 650g/NW: 170g

Packing List

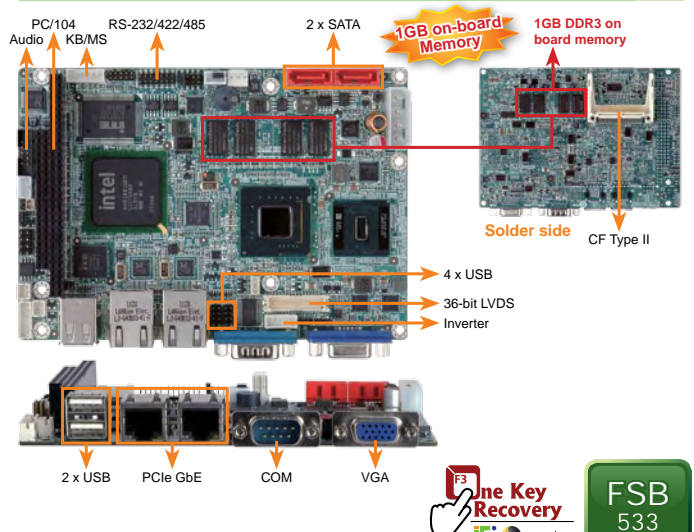
1 x WAFER-PV-D4251/N4551/D5251 single board computer	
1 x SATA with 5V output cable (P/N: 32801-000201-100-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	1 x One Key Recovery CD
1 x KB/MS cable (P/N: 32000-023800-RS)	1 x Mini jumper pack
1 x Power cable (P/N: 32100-087100-RS)	1 x Utility CD 1 x QIG

Ordering Information

Part No.	Description
WAFER-PV-D5251-2GB-R11	3.5" SBC with Intel® Atom™ D525 1.8GHz, 2GB DDR3 memory on board, VGA/LVDS, Dual GbE, USB 2.0 and SATA 3Gb/s, audio, RoHS
WAFER-PV-D4251-2GB-R11	3.5" SBC with Intel® Atom™ D425 1.8GHz, 2GB DDR3 memory on board, VGA/LVDS, Dual GbE, USB 2.0 and SATA 3Gb/s, audio, RoHS
WAFER-PV-N4551-2GB-R11	3.5" SBC with Intel® Atom™ N455 1.66GHz, 2GB DDR3 memory on board, VGA/LVDS, Dual GbE, USB 2.0 and SATA 3Gb/s, audio, RoHS
32001-008600-100-RS	Dual port USB cable
32801-000703-200-RS	SATA cable
32205-000300-100-RS	RS-232/422/485 cable
19FFD124010HB2A7-000001-RS	CPU fan

WAFER-945GSE2-R20

3.5" SBC with Intel® Atom™ N270 1.6G, VGA/LVDS, Dual GbE, CF Type II, USB, SATA, 1GB on-board Memory and PC/104



Features

1. Intel® Atom™ N270 1.6GHz processor for ultra low voltage fanless support
2. Support VGA and LVDS for dual display
3. On-board 1GB DDR2 memory
4. Support two COM, six USB 2.0, two SATA and one CF Type II socket
5. Support PC/104 ISA expansion slot
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU
 - Intel® Atom™ processor N270 1.6GHz with a 533MHz FSB
- ◆ System Chipset
 - Intel® 945GSE
 - Intel® 82801GBM/ICH7M
- ◆ BIOS
 - AMI BIOS
- ◆ Memory
 - 1GB on-board DDR2 SDRAM
- ◆ Ethernet
 - Dual Realtek RTL8111E PCIe GbE controller
- ◆ I/O Interface
 - 6 x USB 2.0 2 x SATA
 - 1 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)
- ◆ Super IO
 - ITE IT8718
- ◆ Expansion
 - PC/104 (ISA Bus, not support ISA DMA Mode)
- ◆ 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
- ◆ Watchdog Timer
 - Software programmable support 1~255 sec. system reset
- ◆ Power Supply
 - 5V only, 12V for LCD/system fan, AT/ATX support
- ◆ Watchdog Timer
 - Software programmable 1-255 sec. by super I/O
- ◆ Operating Temperature
 - 0°C ~ 60°C (WAFER-945GSE2-N270-R20)
 - 20°C ~ 70°C (WAFER-945GSE2-N270W-R20)
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Power Consumption
 - 5V@2.36A (Intel® Atom™ N270 1.6G with on-board 1GB DDR2)
- ◆ Dimensions: 146 mm x 102 mm
- ◆ Weight: GW: 700g/NW 230g

Packing List

1 x WAFER-945GSE2 single board computer	
1 x Audio cable (P/N: 32000-072100-RS)	1 x One Key Recovery CD
1 x KB/MS cable (P/N: 32000-023800-RS)	1 x Mini jumper pack
4 x Plastic intermediate pole for PC/104	1 x Utility CD
2 x SATA cable (P/N: 32801-000703-200-RS)	1 x QIG

Ordering Information

Part No.	Description
WAFER-945GSE2-N270-R20	3.5" SBC with Intel® Atom™ processor N270 1.6G, VGA/LVDS, Dual GbE, CF Type II, USB, SATA, on board 1GB memory and PC/104
WAFER-945GSE2-N270W-R20	3.5" SBC with Intel® Atom™ processor N270 1.6G, VGA/LVDS, Dual GbE, CF Type II, USB, SATA, on board 1GB memory and PC/104, -20°C ~ 70°C
32001-008600-100-RS	Dual port USB cable
32205-000300-100-RS	RS-232/422/485 cable
32100-052100-RS	ATX power cable
32102-000100-200-RS	SATA power cable

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- 2 Video Capture Solutions
- 3 Embedded Computing Solutions
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- 5 ORing Network Communication
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- 7 Panel Solutions Introduction