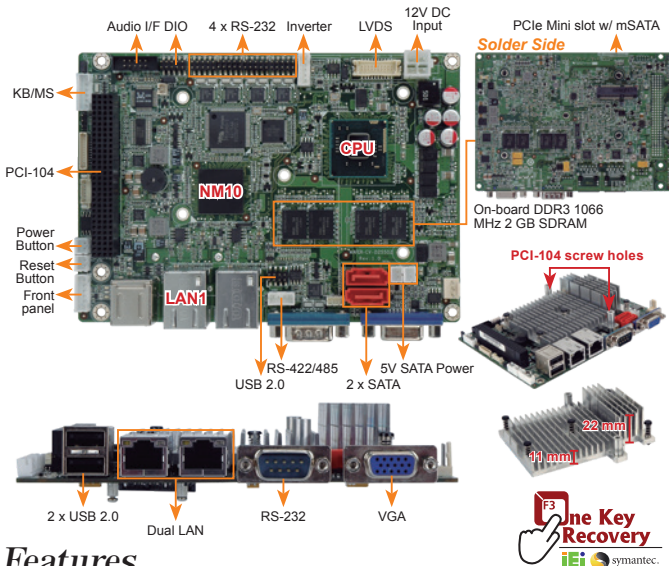


# WAFAER-CV-D25502/N26002

3.5" SBC Supports Intel® Atom™ D2550/N2600 Processor with 2 GB DDR3 Memory, VGA/LVDS, Dual GbE, PCI-104, USB 2.0, SATA 3Gb/s and Audio



## Features

- 3.5" form factor supports Intel® Atom™ D2550/N2600 dual-core processor with 2 GB DDR3 memory
- 12V only single voltage design for AT/ATX power
- 24-bit single-channel LVDS via D2550 CPU or 18-bit single-channel via N2600/N2800 CPU support
- Supporting PCI-104 and mSATA
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU
  - Intel® Atom™ D2550 (1.86GHz, dual-core, 1MB cache)
  - Intel® Atom™ N2600 (1.6GHz, dual-core, 1MB cache)
  - Intel® Atom™ N2800 (1.86GHz, dual-core, 1MB cache)
- ◆ System Chipset: Intel® NM10
- ◆ BIOS: UEFI BIOS
- ◆ Memory
  - 2 GB soldered-down 1066 MHz DDR3 memory
- ◆ Graphics
  - GMA 3650 with 640 MHz graphics core speed for D2550 and N2800
  - GMA 3600 with 400 MHz graphics core speed for N2600
- ◆ Display Output
  - VGA (up to 1920x1200@60Hz)
  - 24-bit single-channel LVDS (D2550) (up to 1440x900@60Hz)
  - 18-bit single-channel LVDS (N2600/N2800) (up to 1366x768@60Hz)
- ◆ Ethernet
  - LAN1: Realtek RTL8111E controllers with ASF2.0 support
  - LAN2: Realtek RTL8111E controllers
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Audio: Realtek ALC662 HDA codec
- ◆ External I/O Interface
  - 1 x RS-232
  - 2 x USB 2.0
- ◆ Internal I/O Interface
  - 1 x KB/MS (1x6 pin)
  - 1 x RS-422/485 (1x4 pin, P=2.0)
  - 2 x SATA 3Gb/s with 5V SATA power connector
  - 2 x USB 2.0 (2x4 pin, P=2.0)
  - 4 x RS-232 (2x5 pin, P=2.0)
- ◆ Expansion
  - 1 x Full-size PCIe Mini card slot (support mSATA)
  - 1 x PCI/104 slot (PCI signal)
- ◆ Fan Connector: 1 x Smart fan connector (1x3 pin)
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Power Supply
  - 12V only DC input
  - 1 x Internal power connector (2x2 pin)
  - Support AT/ATX moded
- ◆ Power Consumption:
  - 12V@1.19A (1.86GHz Intel® Atom™ D2550 with on-board 1 GB 1066 MHz DDR3 memory)
  - 12V@0.95A (1.6GHz Intel® Atom™ N2600 with on-board 2 GB 1066 MHz DDR3 memory)
- ◆ Operating Temperature
  - 20°C ~ 60°C with free air, -20°C ~ 70°C with force air for D2550 processor
  - 20°C ~ 70°C with free air, -20°C ~ 75°C with force air for N2600/N2800 processor
- ◆ Storage Temperature: -30°C ~ 80°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 146 mm x 102 mm
- ◆ Weight: GW: 600g / NW: 250g
- ◆ CE/FCC compliant

## Packing List

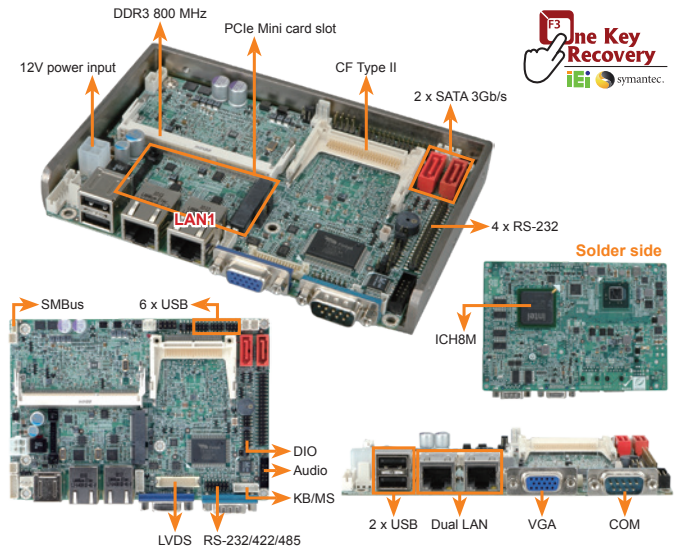
|   |                                   |
|---|-----------------------------------|
| 1 x WAFAER-CV-D25502/N26002 single board computer |                                   |
| 1 x Audio cable                                   |                                   |
| 1 x Power cable                                   | 2 x SATA with 5V output cable kit |
| 1 x PS/2 KB/MS cable                              | 1 x Mini jumper pack              |
| 1 x RS-232 cable                                  | 1 x QIG                           |

## Ordering Information

| Part No.               | Description  |
|------------------------|--|
| WAFAER-CV-D25502-R10   | 3.5" SBC supports Intel® Atom™ D2550 1.86 MHz processor with 2 GB DDR3 memory, VGA/LVDS, Dual GbE, PCI/104, USB 2.0, SATA 3Gb/s and Audio  |
| WAFAER-CV-N26002-R10   | 3.5" SBC supports Intel® Atom™ N2600 1.6 MHz processor with 2 GB DDR3 memory, VGA/LVDS, Dual GbE, PCI/104, USB 2.0, SATA 3Gb/s and Audio   |
| **WAFAER-CV-N28002-R10 | 3.5" SBC supports Intel® Atom™ N2800 1.86 MHz processor with 2 GB DDR3 memory, VGA/LVDS, Dual GbE, PCI/104, USB 2.0, SATA 3Gb/s and Audio (by project support, MOQ 100pcs / lot) |
| 32001-008600-200-RS    | Dual-port USB cable, 210mm, P=2.0  |
| 32205-003800-300-RS    | RS-422/485 cable, 200mm, P=2.0   |

# WAFAER-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



## Features

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

## Specifications

- ◆ CPU
  - Intel® Atom™ D525 (1.8GHz, dual-core, 1MB cache)
  - Intel® Atom™ D425 (1.8GHz, single-core, 512KB cache)
  - Intel® Atom™ N455 (1.66GHz, single-core, 512KB cache)
- ◆ Chipset: Intel® ICH8M
- ◆ BIOS: UEFI BIOS
- ◆ Memory
  - One 204-pin 800 MHz DDR3 SDRAM SO-DIMM slot supports up to 4 GB (D525/D425) or 2 GB (N455)
- ◆ Graphics
  - GMA 3150
  - Graphics core speed 400 MHz for D525/D425
  - Graphics core speed 200 MHz for N455
- ◆ Display Output
  - VGA (up to 2048x1536 (D525/D425) or 1400x1050 (N455) @60Hz)
  - 18-bit single-channel LVDS (up to 1366x768 (D525/D425) or 1024x768 (N455) @60Hz)
- ◆ Ethernet
  - LAN1: Realtek RTL8111E controllers with ASF2.0 support
  - LAN2: Realtek RTL8111E controllers
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Expansion: 1 x Full-size PCIe Mini card slot
- ◆ Audio: Realtek ALC662 HD Audio codec
- ◆ External I/O Interface
  - 1 x RS-232
  - 2 x USB 2.0
- ◆ Internal I/O Interface
  - 1 x CF Type II
  - 1 x KB/MS (1x6 pin)
  - 1 x RS-232/422/485 (2x7 pin, P=2.0)
  - 2 x SATA 3Gb/s with 5V SATA power connector
  - 4 x RS-232 (2x5 pin, P=2.0)
  - 6 x USB 2.0 (2x4 pin, P=2.0)
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Power Supply
  - 12V only DC input
  - 1 x Internal power connector (2x2 pin)
  - Support AT/ATX mode
- ◆ Fan Connector
  - 1 x CPU smart fan (1x3 pin)
  - 1 x System smart fan (1x3 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ Power Consumption
  - 12V@1.79A (Intel® Atom™ D525 with one 1 GB 800 MHz DDR3 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Weight: GW: 600g / NW: 250g
- ◆ CE/FCC compliant

## Packing List

|   |                               |
|---|-------------------------------|
| 1 x WAFAER-PV-D5252/D4252/N4552 single board computer |                               |
| 1 x Audio cable                                       | 1 x SATA with 5V output cable |
| 1 x KB/MS cable                                       | 1 x Heat spreader             |
| 1 x Power cable                                       | 1 x Mini jumper pack          |
| 1 x Quad RS-232 cable                                 | 1 x QIG                       |

## Ordering Information

| Part No.            | Description  |
|---------------------|--|
| WAFAER-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  |
| WAFAER-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  |
| WAFAER-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 |
| 19800-004300-100-RS | RS-232 & RS-422/485 cable with bracket, 14-pin to two DB-9, 250mm, P=2.0                               |
| 32001-008600-200-RS | Dual-port USB cable, 210mm, P=2.0  |