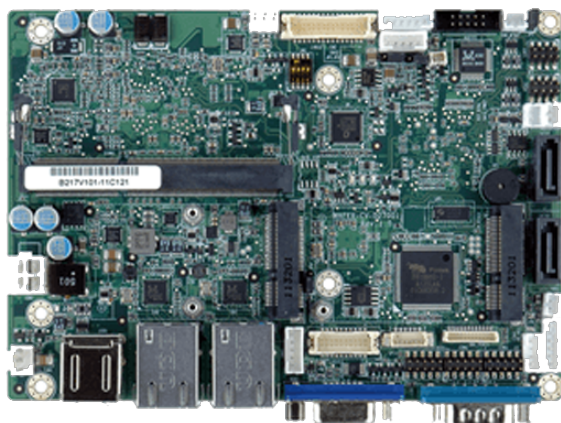


# WAFER-CV-D25501

3.5" SBC with Intel® Atom™ D2550/N2600 Processor



## Features

- » 3.5" form factor with Intel® Atom™ D2550/N2600 dual-core processor supporting DDR3/DDR3L (1.35V) memory
- » 12V only single voltage design for AT/ATX power
- » Open frame heatsink thermal design for fanless solutions
- » Flexible VGA, 18/24-bit LVDS with dual display support
- » Complete I/O: six USB, two SATA 3Gb/s, one mSATA, four COM and audio
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

|                       |                                                                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU Cooler            |                                                                                                                                                                                                                                                                                             |
| CPU Cooler            | Heat Spreader                                                                                                                                                                                                                                                                               |
| Display               |                                                                                                                                                                                                                                                                                             |
| Display               | Dual display supported                                                                                                                                                                                                                                                                      |
|                       | VGA (up to 1920x1200@60Hz)                                                                                                                                                                                                                                                                  |
|                       | (Due to Intel GMA driver limitation, the monitor connected to the VGA connector may not have signal to it or become extended desktop after restarting from the graphics driver installation. To solve this problem, press the Ctrl+Alt+F1 hotkey to switch the primary screen to CRT mode.) |
|                       | 24-bit single-channel LVDS1 (D2550) (up to 1440x900@60Hz)                                                                                                                                                                                                                                   |
|                       | 18-bit single-channel LVDS1 (N2600/N2800) (up to 1366x768@60Hz)                                                                                                                                                                                                                             |
|                       | 24-bit dual-channel LVD2 (up to 1920x1200 (D2550) or 1600x1200 (N2600/N2800)@60Hz)                                                                                                                                                                                                          |
| Environment           |                                                                                                                                                                                                                                                                                             |
| Humidity              | 5% ~ 95%, non-condensing                                                                                                                                                                                                                                                                    |
| 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 processor                                                                                                                                                                                                                 |
| Expansion Slots       |                                                                                                                                                                                                                                                                                             |
| Expansion Slots       | 1 x Full-size PCIe Mini card slot (support mSATA)                                                                                                                                                                                                                                           |
|                       | 1 x Half-size PCIe Mini card slot                                                                                                                                                                                                                                                           |
| I/O Interface         |                                                                                                                                                                                                                                                                                             |
| Audio                 | Realtek ALC662 HD Audio codec                                                                                                                                                                                                                                                               |
| Digital I/O           | 8-bit digital I/O (4-bit input / 4-bit output)                                                                                                                                                                                                                                              |
| Ethernet              | Dual LAN: Realtek RTL8111E controllers                                                                                                                                                                                                                                                      |
| I/O Interface         | 5 x RS-232                                                                                                                                                                                                                                                                                  |
|                       | 1 x RS-422/485                                                                                                                                                                                                                                                                              |
|                       | 4 x USB2.0                                                                                                                                                                                                                                                                                  |
|                       | 1 x 6-pin wafer for PS/2 KB/MS                                                                                                                                                                                                                                                              |
| I/O Interface         |                                                                                                                                                                                                                                                                                             |
| I/O Interface         | 3 x RS-232                                                                                                                                                                                                                                                                                  |
|                       | 1 x RS-422/485                                                                                                                                                                                                                                                                              |
|                       | 6 x USB 2.0                                                                                                                                                                                                                                                                                 |

|                   |                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------|
| Power             |                                                                                                |
| Power consumption | 12V@1.53A (1.86GHz Intel® D2550 with 1 GB DDR3 1066 MHz)                                       |
|                   | 12V@1.15A (1.6GHz Intel® N2600 with 1 GB DDR3 1066 MHz)                                        |
| Storage           |                                                                                                |
| Storage           | 2 x SATA 3Gb/s                                                                                 |
|                   | 1 x mSATA(colay SATA2)                                                                         |
| System            |                                                                                                |
| Chipset           | Intel® NM10                                                                                    |
| CPU               | Intel® dual core Atom™ D2550 1.86GHz processor                                                 |
|                   | Intel® dual core Atom™ N2600 1.6GHz processor                                                  |
|                   | Intel® dual core Atom™ N2800 1.86GHz processor (optional)                                      |
| CPU Socket        | On board                                                                                       |
| Memory Max.       | One 204-pin 1066 MHz DDR3 SDRAM SO-DIMM slot supports up to 4 GB (D2550/N2800) or 2 GB (N2600) |
| Watchdog Timer    |                                                                                                |
| Watchdog Timer    | Software programmable and supports 1~255 sec. system reset                                     |

## Ordering Information

|                      |                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------|
| WAFFER-CV-D25501-R10 | 3.5" SBC with Intel Atom D2550 1.86GHz,DDR3,VGA/LVDS,Dual GbE,USB 2.0,mSATA,SATA 3Gb/s,Audio and RoHS |
|----------------------|-------------------------------------------------------------------------------------------------------|

## Packing List

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| 1 x WAFFER-CV-D25501/N26001 single board computer | 1 x Audio cable                   |
| 1 x KB/MS cable                                   | 1 x Power cable 1 x Heat spreader |
| 1 x RS-232 cable 1 x Mini jumper pack             | 1 x Screw set for PCIe Mini card  |
| 2 x SATA with 5V output cable                     | 1 x QIG                           |