WAFER-CV- D25501 N26001
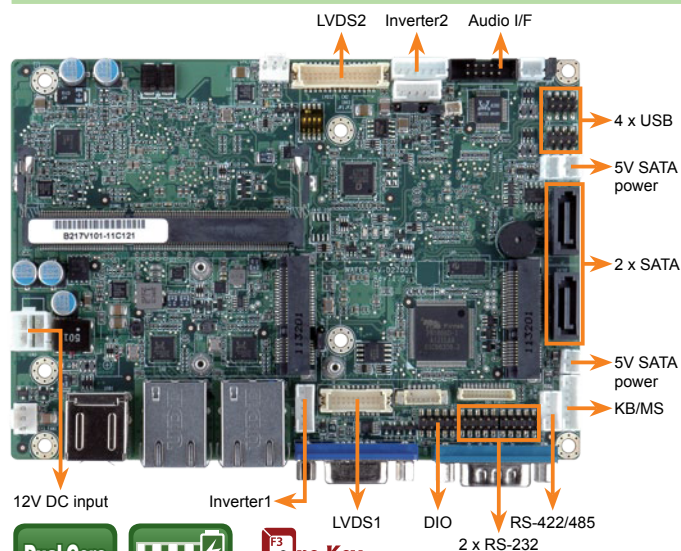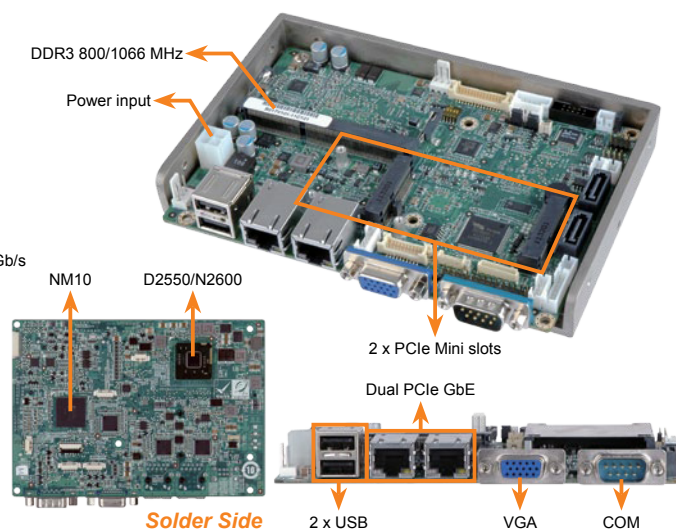
3.5" SBC with Intel® Atom™ D2550/N2600 Processor, DDR3, VGA/Dual LVDS, Dual GbE, USB 2.0, SATA 3Gb/s, Audio and RoHS

LVDS2 Inverter2 Audio I/F
4 x USB
5V SATA power
2 x SATA 3Gb/s
5V SATA power
KB/MS
12V DC input Inverter1 LVDS1 DIO RS-422/485 2 x RS-232

DDR3 800/1066 MHz
Power input
NM10 D2550/N2600
2 x PCIe Mini slots
Dual PCIe GbE
Solder Side
2 x USB VGA COM

Dual Core Atom™ · 1.35V DDR3 · One Key Recovery (iEi symantec.)

Fanless · Dual Display · Heat Spreader · SATA 3Gb/s · Gigabit Ethernet GbE · mSATA

Features

1. 3.5" form factor with Intel® Atom™ D2550/N2600 dual-core processor supporting DDR3/DDR3L (1.35V) memory
2. 12V only single voltage design for AT/ATX power
3. Open frame heatsink thermal design for fanless solutions
4. Flexible VGA, 18/24-bit LVDS with dual display support
5. Complete I/O: six USB, two SATA 3Gb/s, one mSATA, four COM and audio
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery
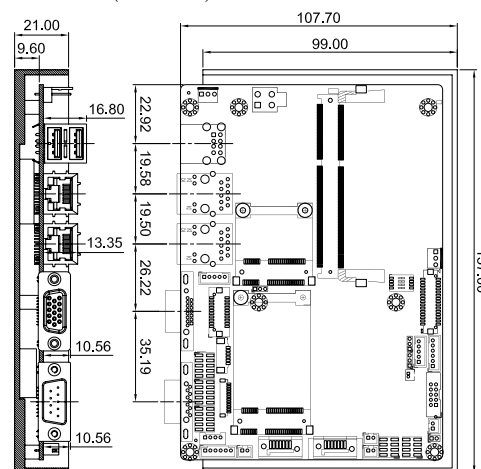
Specifications

◆ **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)
◆ **Chipset**
  Intel® NM10
◆ **BIOS**
  UEFI BIOS
◆ **Memory**
  1 x 1066MHz DDR3 SO-DIMM supporting up to 4GB (for D2550 and N2800)
  1 x 800MHz DDR3 SO-DIMM supporting up to 2GB (for N2600)
◆ **Graphics**
  GMA 3650 at 640MHz graphics core speed (for N2550 and N2800)
  GMA 3600 at 400MHz graphics core speed (for N2600)
◆ **Display Output**
  Dual display supported
  1 x VGA (up to 1920 x 1200 @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.)
  LVDS1 integrated in the D2550/N2600
  Single-channel 24-bit LVDS by D2550, resolution support up to 1440x900 @60Hz
  Single-channel 18-bit LVDS by N2600, resolution support up to 1366x768 @60Hz
  LVDS2 supports 24-bit dual-channel by CH7511B DP to LVDS converter, resolution support up to 1920x1200 for D2550, 1600x1200 for N2600/N2800
◆ **Ethernet**
  Dual GbE by Realtek RTL8111E controllers
◆ **I/O Interfaces**
  1 x RS-422/485   1 x 6-pin wafer for PS/2 KB/MS
  3 x RS-232   2 x SATA 3Gb/s with 5V power connector
  6 x USB 2.0
◆ **Super IO**
  Fintek F81866
◆ **Digital I/O**
  8-bit digital I/O (4-bit input, 4-bit output)
◆ **Expansions**
  1 x Full-size PCIe Mini card slot supporting mSATA SSD storage
  1 x Half-size PCIe Mini card slot
◆ **Audio**
  Realtek ALC662 HD audio codec
◆ **Watchdog Timer**
  Software programmable supports 1~255 sec. system reset
◆ **Power Supply**
  12V only, AT/ATX support
◆ **Fan Connector (smart fan support)**
  1 x 3-pin CPU fan connector
  1 x 3-pin system fan connector
◆ **Power Consumption**
  12V@1.53A (Intel® D2550 1.86GHz CPU with 1GB DDR3 1066MHz memory)
  12V@1.15A (Intel® N2600 1.6GHz CPU with 1GB DDR3 1066MHz 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
◆ **Operating Humidity**
  5% ~ 95%, non-condensing
◆ **Weight:** GW: 600g/NW: 250g

Dimensions *(Unit: mm)*

Packing List

1 x WAFER-CV-D25501/N26001 single board computer	
2 x SATA with 5V output cable (P/N: 32801-000201-100-RS)	
1 x RS-232 cable (P/N: 32205-002700-100-RS)	1 x One Key Recovery CD
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 Utility CD
1 x Screw set for PCIe Mini card	1 x QIG

Ordering Information

Part No.	Description
WAFER-CV-D25501-R10	3.5" SBC with Intel® Atom™ D2550 1.86GHz, DDR3, VGA/dual LVDS, dual GbE, USB 2.0, SATA 3Gb/s, Audio, RoHS
WAFER-CV-N26001-R10	3.5" SBC with Intel® Atom™ N2600 1.6 GHz, DDR3, VGA/dual LVDS, dual GbE, USB 2.0, SATA 3Gb/s, Audio, RoHS
WAFER-CV-N28001-R10	3.5" SBC with Intel® Atom™ N2800 1.86GHz, DDR3, VGA/dual LVDS, dual GbE, USB 2.0, SATA 3Gb/s, Audio, RoHS (by project support, MOQ 100pcs / lot)
32001-008600-100-RS	Dual-port USB cable
32205-003800-100-RS	RS-422/485 cable, 200mm