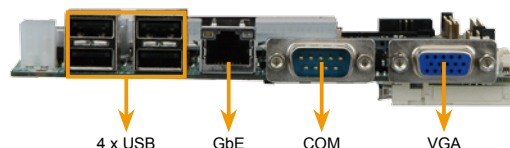
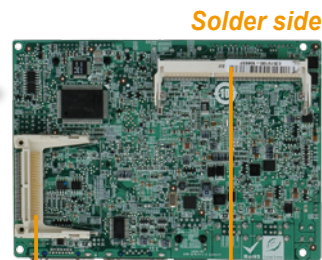
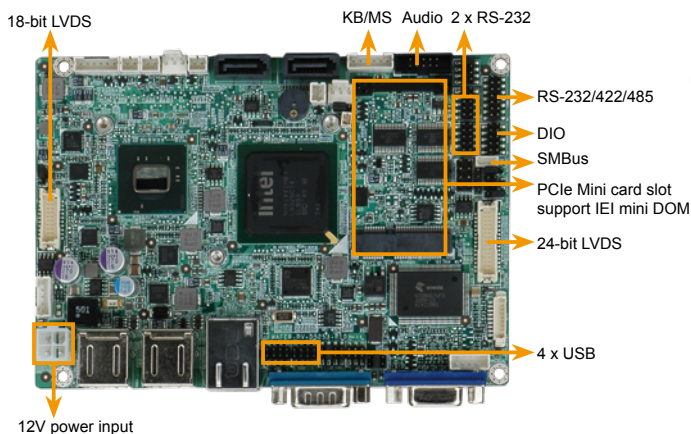


# WAFER-PV-D4253 N4553 D5253

3.5" SBC with Intel® Atom™ D425/N455/D525, DDR3, VGA/18-bit+48-bit LVDS, GbE, USB 2.0 and SATA II, Audio, RoHS



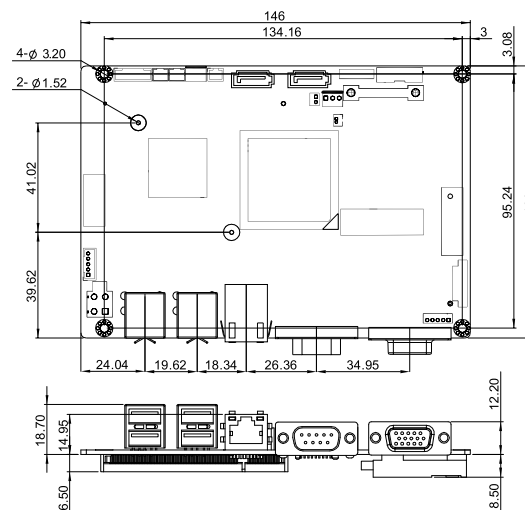
## Specifications

- ◆ 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. 2GB)
- ◆ 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, 1400 x 1050 for N455
  - Support for CRT hot plug
  - Dual-channel 24-bit LVDS by scaler chip Novatek 68667UFG, resolution support up to 1920x1080
  - Single-channel 18-bit LVDS, resolution support up to WXGA 1366x768 or XGA 1024x768
- ◆ Ethernet
  - Single GbE by Realtek RTL8111E with ASF2.0 support
- ◆ I/O Interfaces
  - 3 x RS-232                    1 x RS-232/422/485 with Auto Flow control
  - 1 x KB/MS                    2 x SATA II
  - 8 x USB 2.0                    1 x CF Type II
- ◆ Digital I/O
  - 8-bit digital I/O, 4-bit input / 4-bit output
- ◆ Expansion
  - 1 x PCIe Mini card slot (PCIe + USB + SATA signal) support IEI mini DOM
- ◆ Audio
  - Realtek ALC888 HD Codec
- ◆ Watchdog Timer
  - Software programmable support 1~255 sec. system reset by Super I/O
- ◆ Power Supply
  - 12V only, AT/ATX support
- ◆ Super IO
  - Fintek F81865
- ◆ FAN Connector
  - 1 x 3-pin CPU fan
  - 1 x 3-pin system fan
- ◆ SMBus
  - 1 x 4-pin wafer connector
- ◆ Power Consumption
  - 12V@1.66A (Intel® Atom™ D525 1.8GHz with DDR3 1GB)
- ◆ Temperature
  - 20°C ~ 60°C with free air, -20°C ~ 70°C with force air for D525 processor
  - 20°C ~ 65°C with free air, -20°C ~ 70°C with force air for D425 processor
  - 20°C ~ 70°C with free air, -20°C ~ 75°C with force air for N455 processor
- ◆ Humidity
  - Operation: 5% ~ 95%, non-condensing
- ◆ Weight
  - GW: 600g / NW: 180g

## Features

- 3.5" form factor with Intel® Atom™ D525 / D425 / N455 processor
- 12V only single voltage design for AT/ATX power
- Support 24-bit dual-channel LVDS resolution up to 1920x1080
- Complete I/O with eight USB, two SATA II, one CF II, four COM and audio
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Dimensions (mm)



## Ordering Information

Part No.	Description
WAFER-PV-D5253-R10	3.5" SBC with Intel® Atom™ D525 1.8GHz, DDR3, VGA/18-bit + 48-bit LVDS, GbE, USB 2.0 and SATA II, audio, RoHS
WAFER-PV-D4253-R10	3.5" SBC with Intel® Atom™ D425 1.8GHz, DDR3, VGA/18-bit + 48-bit LVDS, GbE, USB 2.0 and SATA II, audio, RoHS
WAFER-PV-N4553-R10	3.5" SBC with Intel® Atom™ N455 1.66GHz, DDR3, VGA/18-bit + 48-bit LVDS, GbE, USB 2.0 and SATA II, audio, RoHS
32000-070301-RS	Dual Port USB cable
32000-0628000-RS	SATA cable
32205-000300-100-RS	RS-232/RS422/485 cable

## Packing List

1 x WAFER-PV-D4253/N4553/D5253 single board computer	
1 x Power cable (P/N: 32100-087100-RS)	
1 x KB/MS cable (P/N: 32000-023800-RS)	
1 x SATA with 5V output cable Kit (P/N: 32801-000201-100-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	1 x Mini jumper pack
1 x Utility CD	1 x QIG