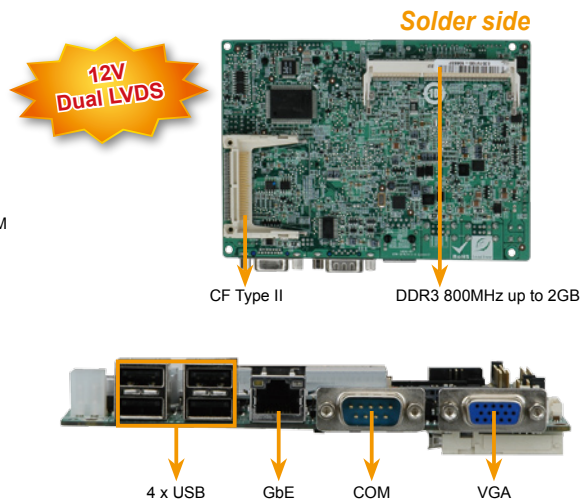
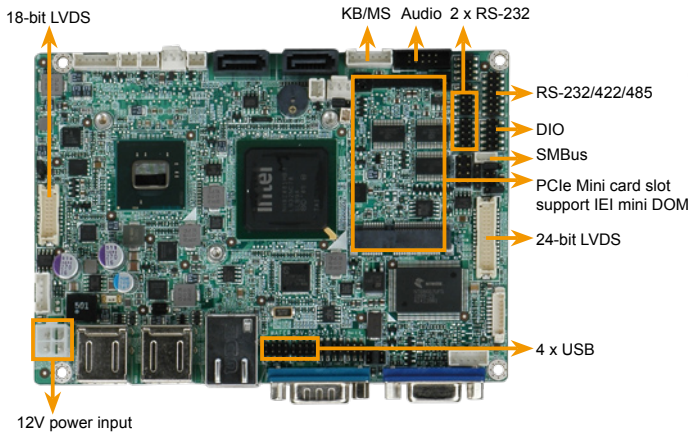


WAFER-PV-D4253 N4553 D5253

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

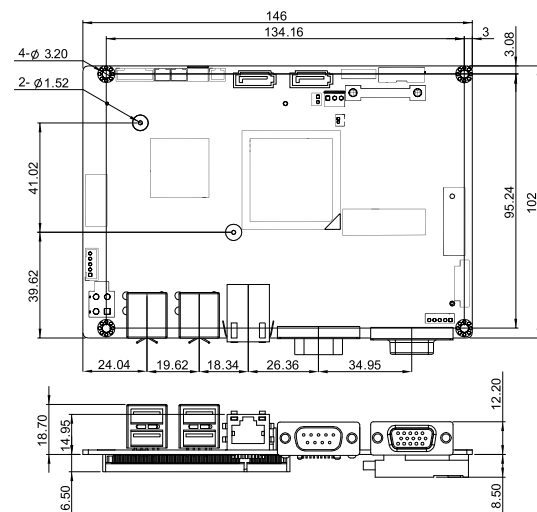
- ◆ CPU
Intel® Atom™ D525 dual-core processor 1.8GHz / 1MB L2 cache
Intel® Atom™ D425 single-core processor 1.8GHz / 512KB L2 cache
Intel® Atom™ N455 single-core processor 1.66GHz / 512KB L2 cache
- ◆ Chipset
Intel® ICH8M
- ◆ BIOS
UEFI BIOS
- ◆ Memory
One 204-pin 800MHz DDR3 SDRAM SO-DIMM supported (System 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

1. 3.5" form factor with Intel® Atom™ D525 / D425 / N455 processor
2. 12V only single voltage design for AT/ATX power
3. Support 24-bit dual-channel LVDS resolution up to 1920x1080
4. Complete I/O with eight USB, two SATA II, one CF II, four COM and audio
5. 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