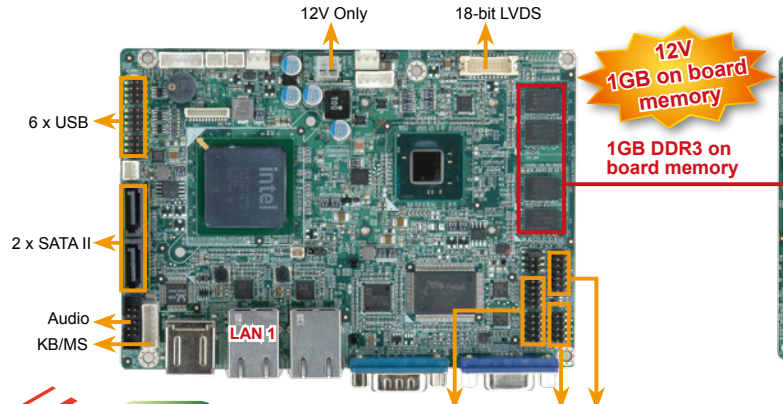
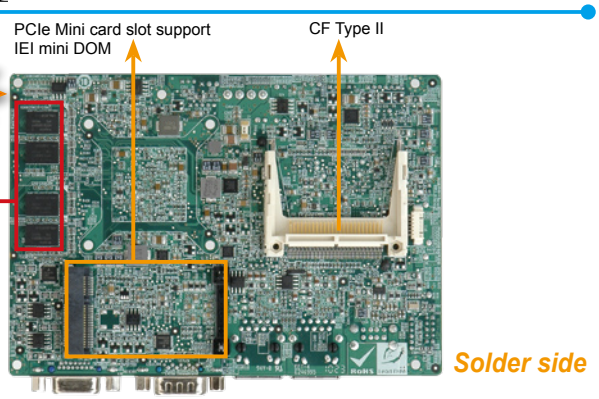
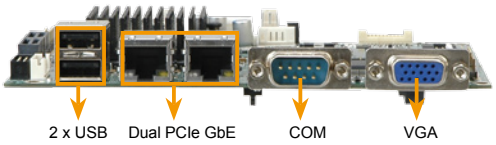
WAFER-PV-D4251 N4551 D5251

3.5" SBC with Intel® Atom™ D425/N455/D525, DDR3 1GB Memory on board, VGA/LVDS, Dual GbE, USB 2.0 and SATA II, Audio, RoHS







12V only | One Key Recovery | SATA Mini DOM | Dual Display | DDR 3 800 | SATA II | USB 2.0 | GbE

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
  ICH8M
- BIOS
  UEFI BIOS
- Memory
  On board DDR3 800MHz 1GB SDRAM
- 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, 1400x1050 for N455
  Support for CRT hot plug
  Single-channel 18-bit LVDS, resolution support up to WXGA 1366x768 or XGA 1024x768
- Ethernet
  Dual GbE by Realtek RTL8111E,LAN1 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 input only — AT/ATX mode select — 2x2 pin power connector
- Super IO
  Fintek F81865
- FAN Connector
  1 x 3-pin CPU fan — 1 x 3-pin system fan
- Power Consumption
  12V@1.68A (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
- Dimensions
  146 mm x 102 mm
- Weight
  GW: 650g / NW: 170g

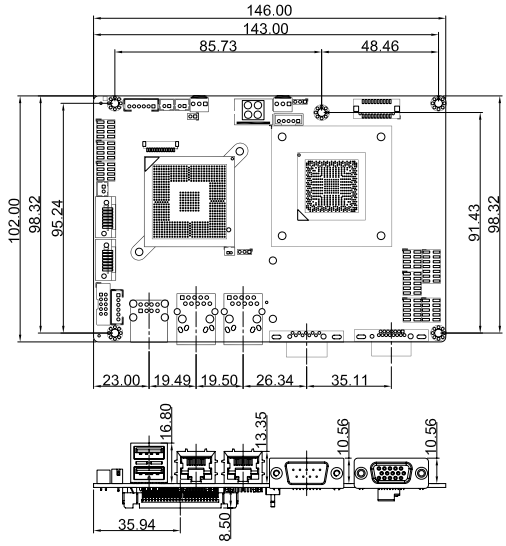
Packing List

1 x WAFER-PV-D4251/N4551/D5251 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 QIG	1 x Utility CD

Features

1. 3.5" form fator with Intel® Atom™ D525 / D425 /N455 proccessor support DDR3 memory
2. 12V only Single Voltage design for AT/ATX power
3. On board DDR3 800 MHz 1GB SDRAM
4. Support VGA and 18-bit single-channel LVDS with dual-display support
5. Complete I/O with eight USB, two SATA II, one CF II, four COM and audio
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Dimensions (mm)

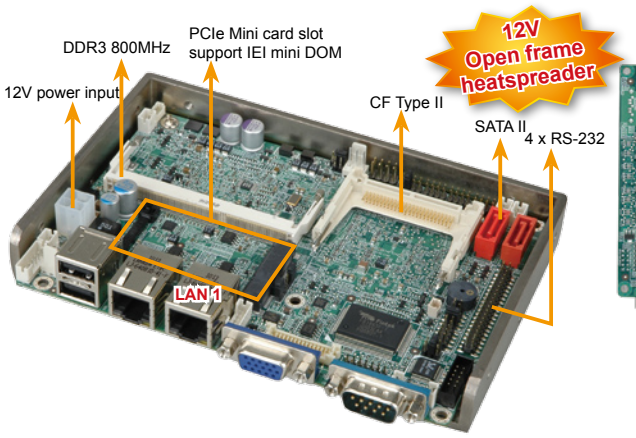


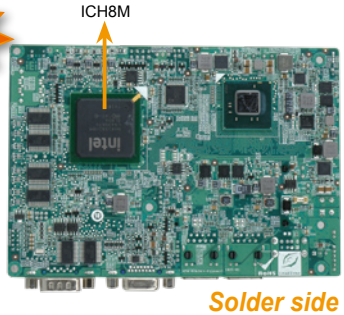
Ordering Information

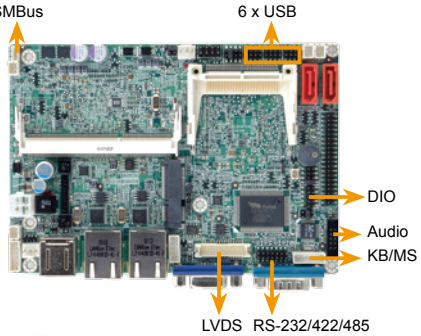
Part No.	Description
WAFER-PV-D5251-R10	3.5" SBC with Intel® Atom™ D525 1.8GHz, DDR3 1GB Memory on board, VGA/LVDS, Dual GbE, USB2.0 and SATA II, audio, RoHS
WAFER-PV-D4251-R10	3.5" SBC with Intel® Atom™ D425 1.8GHz, DDR3 1GB Memory on board, VGA/LVDS, Dual GbE, USB2.0 and SATA II, audio, RoHS
WAFER-PV-N4551-R10	3.5" SBC with Intel® Atom™ N455 1.66GHz, DDR3 1GB Memory on board, VGA/LVDS, Dual GbE, USB2.0 and SATA II, audio, RoHS
32000-070301-RS	Dual Port USB cable
32000-0628000-RS	SATA cable
32205-000300-100-RS	RS-232/422/485 cable
19FTS00032100-000001-RS	CPU fan

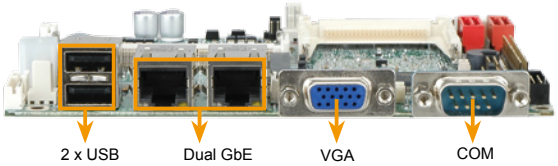
WAFER-PV-D4252 N4552 D5252

3.5" SBC with Intel® Atom™ D425/N455/D525, DDR3, VGA/LVDS, Dual 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, 1400x1050 for N455
  Support for CRT hot plug
  Single-channel 18-bit LVDS
- Ethernet
  Dual GbE by Realtek RTL8111E,LAN1 with ASF2.0 support
- I/O Interfaces
  5 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 F81865F
- FAN Connector
  1 x 3-pin CPU fan
  1 x 3-pin system fan
- SMBus
  1 x 4-pin wafer connetor
- Power Consumption
  12V@1.79A (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: 250g

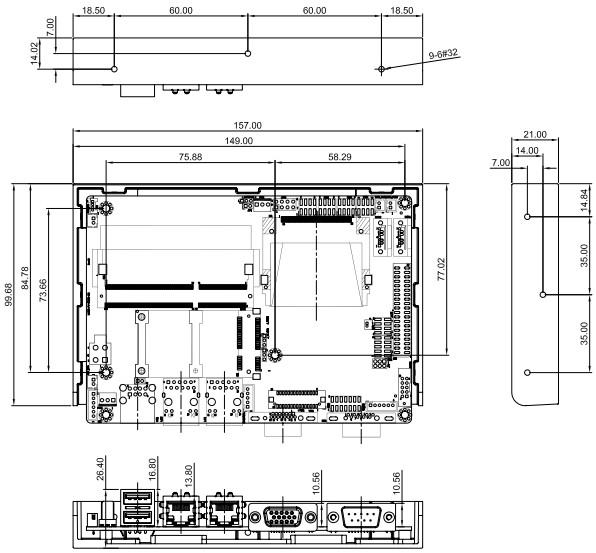
Packing List

1 x WAFER-PV-D4252/N4552/D5252 single board computer	
1 x KB/MS cable (P/N: 32000-023800-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	
1 x SATA with 5V output cable Kit (P/N:32801-000201-100-RS)	
1 x Quad RS-232 cable (P/N: 32200-025401-RS)	
1 x Power cable (P/N: 32100-087100-RS)	
1 x Enclosure heatsink	1 x Mini jumper pack
1 x QIG	1 x Utility CD

Features

1. 3.5" form fator with Intel® Atom™ D525 / D425 / N455 proccessor support DDR3 memory
2. 12V only Single Voltage design for AT/ATX Power
3. Open frame heatsink thermal design for fanelss solution
4. Support VGA and 18-bit single-channel LVDS with dual-display support
5. Complete I/O with eihht USB, two SATA II, one CF II, six COM and audio
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Dimensions (mm)

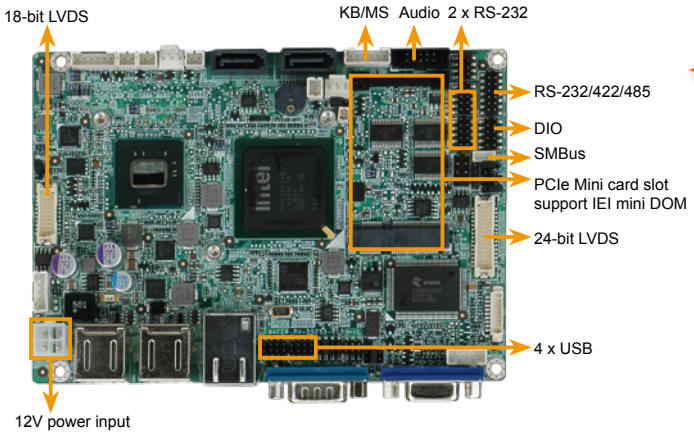


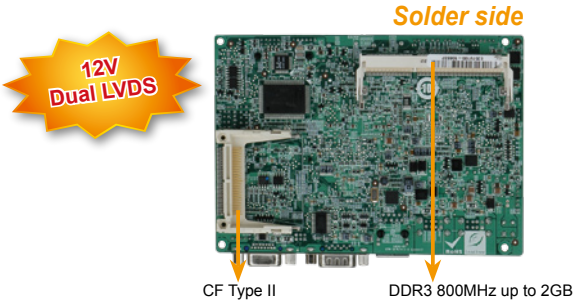
Ordering Information

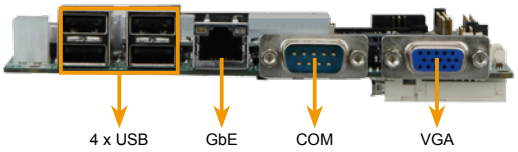
Part No.	Description
WAFER-PV-D5252-R10	3.5" SBC with Intel® Atom™ D525 1.8GHz, DDR3,VGA/ LVDS, Dual GbE, USB2.0 and SATA II, audio, RoHS
WAFER-PV-D4252-R10	3.5" SBC with Intel® Atom™ D425 1.8GHz, DDR3,VGA/ LVDS, Dual GbE, USB2.0 and SATA II, audio, RoHS
WAFER-PV-N4552-R10	3.5" SBC with Intel® Atom™ N455 1.66GHz, DDR3,VGA/ LVDS, Dual GbE, USB2.0 and SATA II, audio, RoHS
32000-070301-RS	Dual port USB cable
32205-000300-100-RS	RS-232/RS422/485 cable

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

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- 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 connetor
- 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

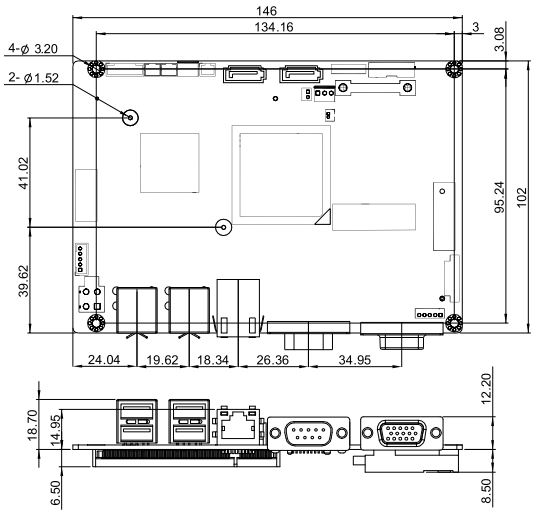
Packing List

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

Features

1. 3.5" form fator with Intel® Atom™ D525 / D425 / N455 proccessor
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