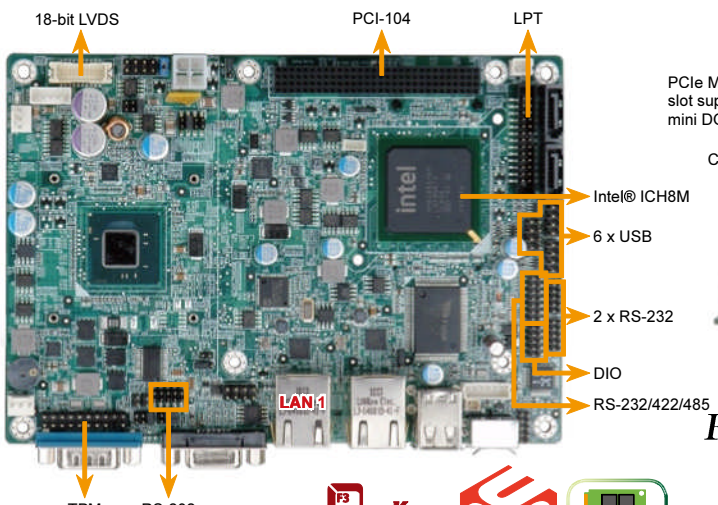
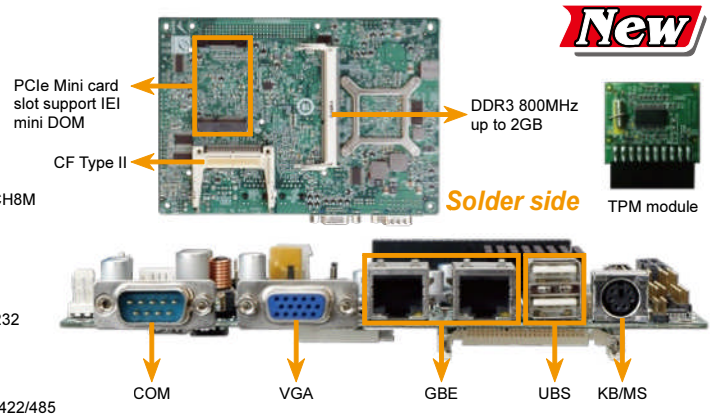
epic NANO-PV-D4251 N4551 D5251

EPIC with Intel® Atom™ D425/N455/D525, DDR3, VGA/LVDS, Dual GbE, USB 2.0, CF II, Audio and SATA 3Gb/s, RoHS





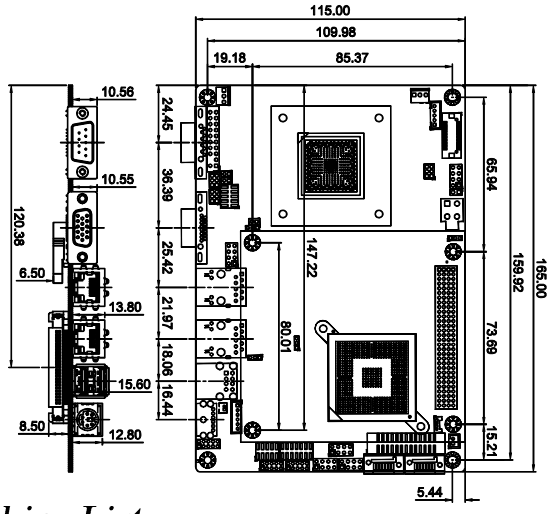
Features

1. EPIC SBC with Intel® Atom™ D525 / D425 / N455 proccessor
2. DDR3 800MHz SDRAM supported (system max. 2 GB)
3. Support VGA and 18-bit single-channel LVDS with Dual display
4. Support PCI-104, PCIe Mini card slot
5. Support five COM, eight USB, two SATA 3Gb/s and one CF Type II socket
6. TPM V1.2 hardware security function support by TPM module
7. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

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**
  Analog CRT up to 2048x1536 for D525/ D425, 1400x1050 for N455
  Support for CRT hotplug
  18-bit single-channel LVDS, resolution support up to WXGA 1366x768 or XGA 1024x768
- **Super IO**
  Fintek F81865
- **LAN**
  Dual PCIe GbE by Realtek RT8111E, LAN1 with ASF2.0 support
- **I/O Interface**
  4 x RS-232 1 x RS-232/422/485 (COM3) with Auto Flow control
  1 x LPT 8 x USB 2.0
  2 x KB/MS 1 x CF Type II socket 2 x SATA 3Gb/s
- **Audio**
  Realtek ALC888 HD codec
- **Expansion**
  1 x PCI-104 slot
  1 x PCIe Mini card slot (PCIe + USB + SATA signal) support IEI mini DOM
- **SMBus**
  1 x 4-pin wafer connetor
- **TPM**
  1 x 20-pin LPC pin header
- **Watchdog Timer**
  Software programmable supports 1~255 sec. system reset by Super I/O
- **Digital I/O**
  8-bit digital I/O, 4-bit input / 4-bit ouput
- **Fan Connector**
  1 x 3-pin CPU fan, 1 x 3-pin system fan
- **Power Supply**
  12V only, AT/ATX support
- **Power Consumption**
  2.21A @ 12V (Intel® Atom™ D525 with 2GB 1066MHz DDR3)
  2.11A @ 12V (Intel® Atom™ D425 with 2GB 1066MHz DDR3)
  2.00A @ 12V (Intel® Atom™ N455 with 2GB 1066MHz DDR3)
- **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: 670g / NW: 350g

Dimensions (Unit: mm)



Packing List

1 x NANO-PV-D4251/N4551/D5251 single board computer	
2 x RS-232 cable (P/N: 32200-000049-RS)	
1 x SATA with 5V output cable (P/N: 32801000201-100-RS)	
1 x KB/MS Y cable (P/N: 32006-000300-100-RS)	
1 x USB cable (P/N: 32000-044300-RS)	1 x Power cable (P/N: 32100-087100-RS)
1 x Audio cable (P/N: 32000-072100-RS)	1 x Mini jumper pack
1 x QIG	1 x Utility CD

Ordering Information

Part No.	Description
NANO-PV-D5251-R10	EPIC with Intel® Atom™ D525 1.8GHz, DDR3, VGA/LVDS, Dual GbE, USB 2.0, CF II, audio and SATA 3Gb/s, RoHS
NANO-PV-D4251-R10	EPIC with Intel® Atom™ D425 1.8GHz, DDR3, VGA/LVDS, Dual GbE, USB 2.0, CF II, audio and SATA 3Gb/s, RoHS
NANO-PV-N4551-R10	EPIC with Intel® Atom™ N455 1.66GHz, DDR3, VGA/LVDS, Dual GbE, USB 2.0, CF II, audio and SATA 3Gb/s, RoHS
32200-015100-RS	LPT cable
32000-062800-RS	SATA cable
32205-000300-100-RS	RS-232/422/485 cable
19FTS00032100-000001-RS	CPU fan
TPM-IN01-R11	20-Pin Infineon TPM module, software management tool, firmware V3.17