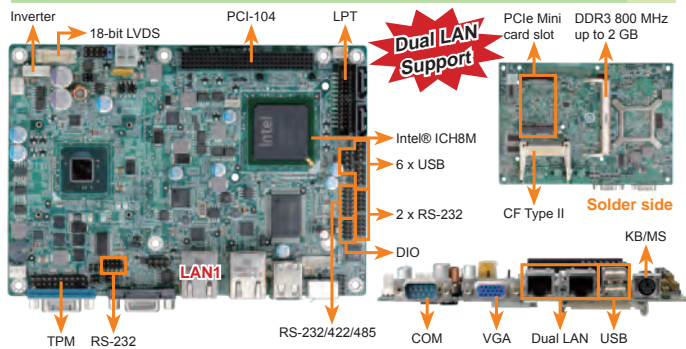


NANO-PV-D4251/N4551/D5251

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



Features

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



TPM 1.2 Support

Specifications

- ◆ CPU
 - Intel® Atom™ D525 (1.8GHz, dual-core, 1MB cache)
 - Intel® Atom™ D425 (1.8GHz, single-core, 512KB cache)
 - Intel® Atom™ N455 (1.66GHz, single-core, 512KB cache)
- ◆ Chipset: Intel® ICH8M
- ◆ BIOS: UEFI BIOS
- ◆ Memory
 - One 204-pin 800 MHz DDR3 SDRAM SO-DIMM slot supports up to 4 GB (D525/D425) or 2 GB (N455)
- ◆ Graphics
 - GMA 3150
 - Graphic core speed 400 MHz for D525/D425
 - Graphic core speed 200 MHz for N455
- ◆ Display Output
 - VGA (up to 2048x1536(D525) or 1400x1050(N455)@60Hz)
 - 18-bit single-channel LVDS (up to 1366x768(D525) or 1024x768(N455)@60Hz)
- ◆ Super IO: Fintek F81865
- ◆ Audio: Realtek ALC888 HD Audio codec
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ Expansion
 - 1 x PCI-104 slot
 - 1 x PCIe Mini card slot
- ◆ Ethernet
 - LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support
 - LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ I/O Interface
 - 1 x CF Type II socket 1 x LPT
 - 2 x KB/MS 2 x SATA 3Gb/s
 - 4 x RS-232 8 x USB 2.0
 - 1 x RS-232/422/485 (COM3) with auto flow control
- ◆ Watchdog Timer
 - Software programmable supports 1~255 sec. system reset by Super I/O
- ◆ Digital I/O: 1 x 8-bit digital I/O (2x5 pin)
- ◆ Fan Connector
 - 1 x CPU smart fan (1x3 pin)
 - 1 x System smart fan (1x3 pin)
- ◆ Power Supply
 - 12V only DC input, support AT/ATX mode
- ◆ Power Consumption
 - 12V@2.21A (Intel® Atom™ D525 with one 2 GB 1066 MHz DDR3 memory)
 - 12V@2.11A (Intel® Atom™ D425 with one 2 GB 1066 MHz DDR3 memory)
 - 12V@2.00A (Intel® Atom™ N455 with one 2 GB 1066 MHz DDR3 memory)
 - ◆ Operating Temperature: -10°C ~ 60°C
 - ◆ Storage Temperature: -20°C ~ 70°C
 - ◆ Operating Humidity: 5% ~ 95%, non-condensing
 - ◆ Weight: GW: 670g/NW: 350g

Packing List

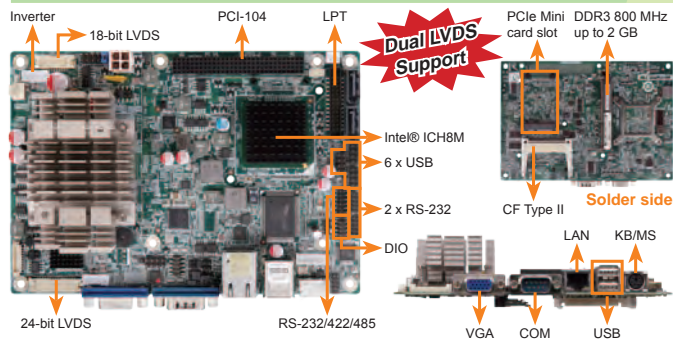
1 x NANO-PV-D4251/N4551/D5251 single board computer	
1 x Audio cable	2 x RS-232 cable
1 x Dual port USB cable	1 x Mini jumper pack
1 x KB/MS Y cable	1 x One Key Recovery CD
1 x Power cable	1 x QIG
1 x SATA with 5V output cable	1 x Utility CD

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 Type 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 Type 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 Type II, audio and SATA 3Gb/s, RoHS
19FFD124010HB2A7-000001-RS	CPU fan (40mmx40mmx10mm)
32000-062800-RS	SATA (7-pin to 7-pin) cable, 500mm
32200-015100-RS	LPT cable, 280mm, P=2.0
32200-026500-RS	RS-232/422/485 cable, 290mm, P=2.0
34000-000510-RS	30mm higher heatsink
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware v3.17

NANO-PV-D4252/N4552/D5252

EPIC SBC with Intel® Atom™ D425/N455/D525, DDR3, VGA/Dual LVDS, PCIe GbE, CF Type II, SATA 3Gb/s



Features

- EPIC SBC with Intel® Atom™ D525/D425/N455 processor and DDR3 solution
- 12V only single voltage design for AT/ATX mode
- Support dual LVDS
- Support PCI-104 and PCIe Mini card slot
- Support five COM, eight USB, two SATA 3Gb/s and one CF Type II socket
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU
 - Intel® Atom™ D525 (1.8GHz, dual-core, 1MB cache)
 - Intel® Atom™ D425 (1.8GHz, single-core, 512KB cache)
 - Intel® Atom™ N455 (1.66GHz, single-core, 512KB cache)
- ◆ Chipset: Intel® ICH8M
- ◆ BIOS: UEFI BIOS
- ◆ Memory
 - One 204-pin 800 MHz DDR3 SDRAM SO-DIMM slot supports up to 4 GB (D525/D425) or 2 GB (N455)
- ◆ Graphics
 - GMA 3150
 - Graphic core speed 400 MHz for D525/D425
 - Graphic core speed 200 MHz for N455
- ◆ Display Output
 - VGA (up to 2048x1536(D525) or 1400x1050(N455)@60Hz)
 - 18-bit single-channel LVDS (up to 1366x768(D525) or 1024x768(N455)@60Hz)
 - 24-bit dual-channel LVDS (up to 1920x1080@60Hz)
- ◆ Super IO: Fintek F81865
- ◆ Audio: Realtek ALC662 HD codec
- ◆ TPM (optional)
- ◆ On-board Infineon SLB9635TT1.2
- ◆ Ethernet
 - LAN: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support
- ◆ I/O Interface
 - 1 x CF Type II 1 x LPT
 - 2 x KB/MS 2 x SATA 3Gb/s
 - 4 x RS-232 8 x USB 2.0
 - 1 x RS-232/422/485 (COM3) with auto flow control
- ◆ Expansion
 - 1 x PCI-104 slot
 - ◆ Watchdog Timer
 - Software programmable supports 1~255 sec. system reset by Super I/O
 - ◆ Digital I/O: 1 x 8-bit digital I/O (2x5 pin)
 - ◆ Fan Connector
 - 1 x CPU smart fan (1x3 pin)
 - 1 x System smart fan (1x3 pin)
 - ◆ Power Supply
 - 12V@2.16A (Intel® Atom™ D525 with 2 GB 1066 MHz DDR3)
 - 12V@2.08A (Intel® Atom™ D425 with 2 GB 1066 MHz DDR3)
 - 12V@1.99A (Intel® Atom™ N455 with 2 GB 1066 MHz DDR3)
 - ◆ Operating Temperature: -10°C ~ 60°C
 - ◆ Storage Temperature: -20°C ~ 70°C
 - ◆ Operating Humidity
 - 5% ~ 95%, non-condensing
 - ◆ Weight: GW: 650g/NW: 340g

Packing List

1 x NANO-PV-D4252/N4552/D5252 single board computer	
1 x Audio cable	2 x RS-232 cable (P/N: 32200-000049-RS)
1 x Dual port USB cable	1 x Mini jumper pack
1 x KB/MS Y cable	1 x One Key Recovery CD
1 x Power cable (P/N: 32100-087100-RS)	1 x QIG
1 x SATA with 5V output cable	1 x Utility CD

Ordering Information

Part No.	Description
NANO-PV-D5252-R11	EPIC SBC with Intel® Atom™ D525 1.8GHz/1MB L2, VGA/Dual LVDS, PCIe GbE, CF Type II, SATA 3Gb/s
NANO-PV-D4252-R11	EPIC SBC with Intel® Atom™ D425 1.8GHz/512KB L2, VGA/Dual LVDS, PCIe GbE, CF Type II, SATA 3Gb/s
NANO-PV-N4552-R11	EPIC SBC with Intel® Atom™ N455 1.66GHz/512KB L2, VGA/Dual LVDS, PCIe GbE, CF Type II, SATA 3Gb/s
19FFD124010HB2A7-000001-RS	CPU fan (40mmx40mmx10mm)
32000-062800-RS	SATA (7-pin to 7-pin) cable, 500mm
32200-015100-RS	LPT cable, 280mm, P=2.0
32200-026500-RS	RS-232/422/485 cable, 290mm, P=2.0