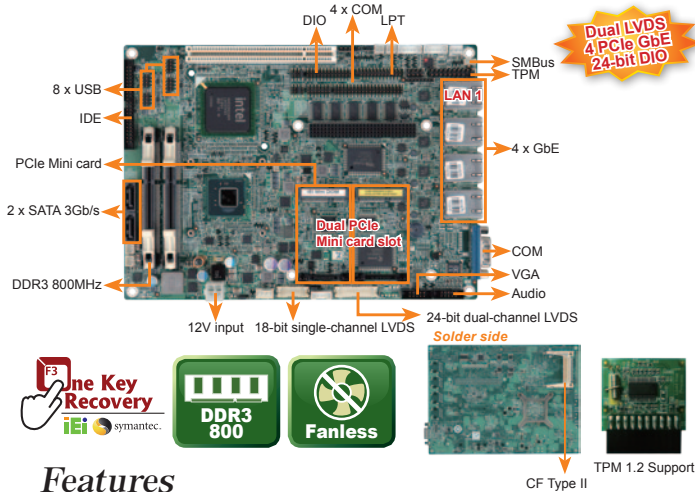


NOVA-PV-D4251/D5251

5.25" SBC, Intel® Atom™ D425/D525, DDR3, 18-bit+48-bit LVDS/VGA, Dual PCIe Mini, Quad PCIe GbE, USB 2.0, SATA 3Gb/s, Audio, RoHS



Features

1. 5.25" SBC supports Intel® Atom™ D525/D425 processor
2. 800/1066 MHz DDR3 supports up to 4GB
3. VGA/18-bit single-channel/24-bit dual-channel LVDS for dual independent display support
4. Quad PCIe Ethernet, two SATA 3Gb/s, and six RS-232 serial port connectors
5. TPM V1.2 hardware security function supported by TPM module
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU
 - 1.8GHz Intel® Atom™ D525 dual-core processor with 1MB L2 cache
 - 800/1066 MHz DDR3 supports up to 4GB
 - 1.8GHz Intel® Atom™ D425 single-core processor with 512KB L2 cache
- ◆ System Chipset: Intel® ICH7M
- ◆ BIOS: UEFI BIOS
- ◆ Memory
 - Two 204-pin 800MHz DDR3 SDRAM SO-DIMMs supported (system max. 4GB) for D525/D425
- ◆ Ethernet
 - Four PCIe Realtek RTL8111E GbE controller, LAN1 with ASF 2.0 support
- ◆ Graphic
 - GMA 3150
 - Graphic core speed 400MHz for D525/D425
- ◆ I/O Interface
 - 4 x RS-232 for NOVA-PV-D5251/D4251-G2L2-R10
 - 5 x RS-232 for NOVA-PV-D5251-G4-R10
 - 1 x RS-232/422/485 with auto flow control
 - 8 x USB 2.0
 - 2 x SATA 3Gb/s
 - 1 x LPT
 - 1 x IDE
 - 1 x CF Type II
 - 1 x 6-pin header for KB/MS
- ◆ Expansion
 - 1 x PCI-104
 - 2 x PCIe Mini card slot
 - 1 x PCI
- ◆ Digital I/O
 - 24-bit digital I/O, 12-bit input/12-bit output
- ◆ Super IO: Fintek F81865
- ◆ Display Interface
 - Dual display supported
 - 1 x VGA
 - 1 x 18-bit single-channel LVDS
 - 1 x 24-bit dual-channel LVDS
- ◆ Audio
 - Realtek ALC888 HD Audio codec
- ◆ Watchdog Timer
 - Software programmable supports 1~255 sec. system reset
- ◆ TPM: 2 x 10-pin header
- ◆ SMBus: 1 x 4-pin wafer
- ◆ SATA Power
 - 2 x 2-pin wafer for SATA 5V power connector
- ◆ Fan Connector
 - 1 x 4-pin CPU fan connector
 - 1 x 3-pin system fan connector
- ◆ Power Supply: 12V only
- ◆ Power Consumption
 - 12V@1.46A (Intel® Atom™ D525 1.8GHz with DDR3 1GB*2)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Humidity
 - Operation: 5% ~ 95%, non-condensing
- ◆ Dimensions: 203 mm x 146 mm
- ◆ Weight: GW: 1000g/NW: 400g

Packing List

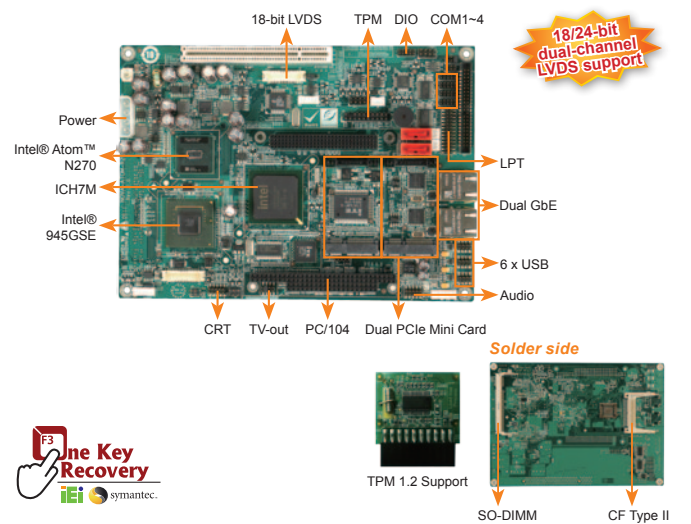
1 x NOVA-PV-D4251/D5251 single board computer	
1 x Quad RS-232 cable (P/N: 32205-002000-100-RS)	
1 x SATA with Power cable kit (P/N: 32801-000201-100-RS)	
1 x Audio cable (P/N: 32007-002600-100-RS)	1 x One Key Recovery CD
1 x KB/MS Y cable (P/N: 32006-001100-100-RS)	1 x Mini jumper pack
1 x USB cable (P/N: 32000-070301-RS)	1 x Utility CD
1 x VGA cable (P/N: 32003-000900-100-RS)	1 x QIG

Ordering Information

Part No.	Description
NOVA-PV-D5251-G4-R10	5.25" SBC, Intel® Atom™ D525 dual-core 1.8GHz, DDR3, 18-bit LVDS/VGA, dual PCIe Mini, quad PCIe GbE, USB 2.0, SATA 3Gb/s, audio, RoHS
NOVA-PV-D4251-G2L2-R10	5.25" SBC, Intel® Atom™ D425 single-core 1.8GHz, DDR3, 18+48-bit LVDS/VGA, dual PCIe Mini, dual PCIe GbE, USB 2.0, SATA 3Gb/s, audio, RoHS
NOVA-PV-D5251-G2L2-R10	5.25" SBC, Intel® Atom™ D525 dual-core 1.8GHz, DDR3, 18+48-bit LVDS/VGA, dual PCIe Mini, dual PCIe GbE, USB 2.0, SATA 3Gb/s, audio, RoHS
32200-000009-RS	44 pin 2.5" IDE cable
32200-015100-RS	LPT cable
32205-000300-100-RS	RS-232/422/485 cable
19FFD124010HB2A7-000001-RS	CPU fan
34000-000510-RS	30mm higher heatsink
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17

NOVA-945GSE-R20

5.25" SBC, Intel® Atom™ N270 1.6GHz, LVDS/VGA/HDTV, Dual PCIe Mini, Dual PCIe GbE, USB 2.0, SATA, RoHS



Features

1. 1.6GHz Intel® Atom™ N270 processor with fanless support
2. 400/533MHz DDR2 SO-DIMM memory support up to 2GB
3. Support dual PCIe Mini card/PCI slot for expansion
4. Dual LVDS support dual display output
5. CF socket for storage expansion
6. TPM support
7. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU
 - Intel® Atom™ N270 1.6GHz with a 533MHz FSB
- ◆ System Chipset: Intel® 945GSE+ICH7M
- ◆ BIOS: AMI BIOS
- ◆ Memory
 - One 200-pin 400/533MHz DDR2 SDRAM SO-DIMM supported (system max. 2GB)
- ◆ Ethernet
 - Dual Realtek PCIe RTL8111CP GbE LAN
- ◆ Graphic
 - Intel® Graphics Media Accelerator 950
- ◆ I/O Interface
 - 3 x RS-232
 - 1 x RS-232/422/485
 - 6 x USB 2.0
 - 2 x SATA with 5V output
 - 1 x LPT
 - 1 x IDE
 - 1 x 6-pin header for KB/MS
- ◆ Expansion
 - 1 x PC/104+ (ISA+PCI bus)
 - 2 x PCIe Mini card
 - 1 x PCI
- ◆ Digital I/O
 - 8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Infrared Interface
 - 1x 5-pin infrared interface by pin header
- ◆ Super IO: ITE IT8718F
- ◆ Display Output
 - Analog CRT support CRT hotplug
 - HDTV supported by component interface
- ◆ Audio: AC'97 ALC655 codec
- ◆ SSD: CF Type II
- ◆ Watchdog Timer
 - Software programmable supports 1~255 sec. system reset
- ◆ TPM: 1x 20-pin header
- ◆ Power Supply
 - 5V only, 12V for LCD/system fan, AT/ATX power
- ◆ Power Consumption
 - 5V@3.49A (Intel® Atom™ N270 with 512MB DDR2)
- ◆ Temperature Operation
 - 0°C ~ 60°C (32°F~140°F)
- ◆ Humidity Operation
 - 5% ~ 95%, non-condensing
- ◆ Dimensions: 203mm x 146mm
- ◆ Weight: GW:1000g, NW:400g

Packing List

1 x NOVA-945GSE-R20 single board computer	
1 x Audio cable (P/N: 32007-002600-100-RS)	1 x USB cable (P/N: 32000-070301-RS)
1 x KB/MS Y cable (P/N: 32006-001100-100-RS)	1 x One Key Recovery CD
1 x VGA cable (P/N: 32003-000900-100-RS)	1 x Mini jumper pack
2 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD
4 x RS-232 cable (P/N: 32200-000049-RS)	1 x QIG

Ordering Information

Part No.	Description
NOVA-945GSE-N270-R20	5.25" SBC, Intel® Atom™ N270 1.6GHz, 18-bit LVDS/VGA/HDTV, dual PCIe Mini, dual PCIe GbE, USB 2.0, SATA, RoHS
32200-000009-RS	44-pin 2.5" IDE cable
32102-000100-100-RS	SATA power cable
32200-015100-RS	LPT cable
WMPCIE-V01-R30	802.11b/g PCIe Mini card wireless LAN module
WMUSB-V01-R20	802.11b/g USB embedded module
32200-833600-RS	RS-422/485 cable