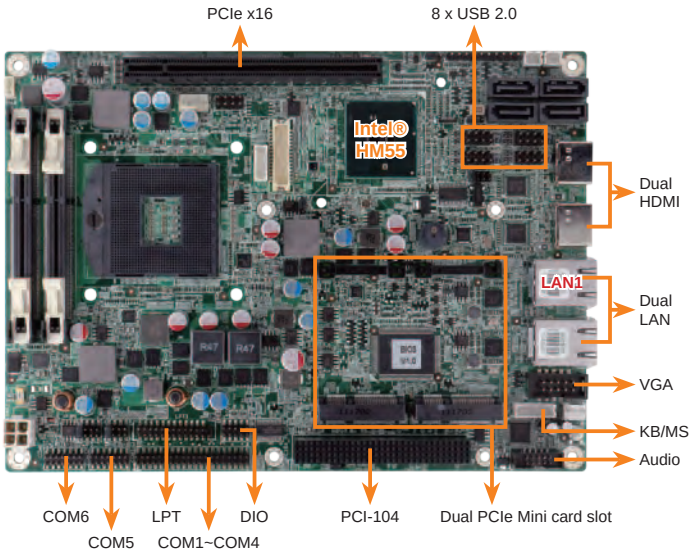
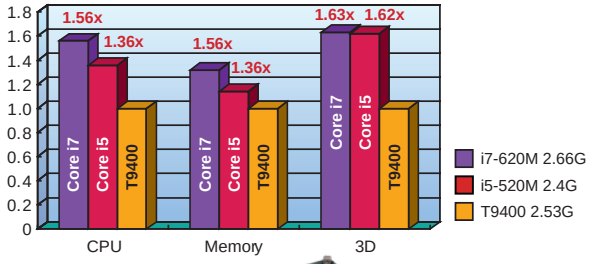
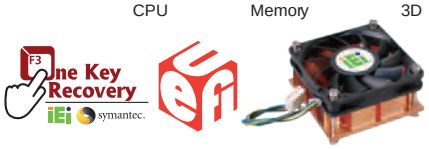
NOVA-HM551-R11

5.25" SBC with Socket G1 Intel® 32nm/45nm Core™ i7/i5/i3 and Celeron® processor, VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 2.0, Dual PCIe Mini, PCIe x16, SATA 3Gb/s and Audio, RoHS



Performance





CPU cooler
P/N: CF-989A-RS-R12

DDR3 800/1066 | USB 2.0 | SATA 3Gb/s | PCIe GbE | 12V only | HDMI

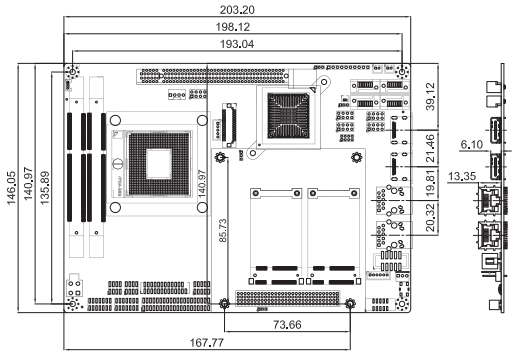
Specifications

- CPU
  Socket G1 for Intel® mobile Core™ i7/i5/i3 and Celeron® processor (Socket 989A)
- PCH
  Intel® HM55
- Memory
  Two 204-pin 4GB (max.) 800/1066MHz dual-channel DDR3 SDRAM SO-DIMM supported (system max. 8GB)
- BIOS
  UEFI BIOS
- Graphics Engine
  Gen 5.75 with 12 Execution Units DirectX* 10, OpenGL* 2.1
- Super I/O
  Fintek F81865
- Display Interface
  Dual display supported
  1 x VGA
  2 x HDMI
  1 x 18/24-bit dual-channel LVDS
- Ethernet
  LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support
  LAN2: Realtek RTL8111E PCIe GbE controller
- I/O Interface
  4 x RS-232 — 2 x RS-232/422/485 with auto flow control
  8 x USB 2.0 — 4 x SATA 3Gb/s with DC power output
  1 x LPT — 1 x 6-pin header for KB/MS
- Expansion
  1 x PCIe x16 slot
  1 x PCI-104
  2 x PCIe Mini card slot (USB+PCIe signal)
- SMBus
  1 x 4-pin wafer connector
- TPM (Optional)
  On-board Infineon SLB9635TT1.2
- Digital I/O
  8-bit digital I/O, 4-bit input/4-bit output
- Fan Connector
  1 x 4-pin for CPU fan connector
  1 x 3-pin for chassis fan connector
- Audio
  On-board Realtek ALC662 HD Audio codec
- Watchdog Timer
  Software programmable supports 1~255 sec. system reset
- Power Supply
  DC 12V only, AT/ATX power selected by jumper
- Power Consumption
  12V@4.67A (2.66GHz Intel® Core™ i7 620M CPU with two 1333MHz 4GB DDR3 DIMM)
- Operating Temperature
  -10°C ~ 60°C
- Humidity
  Operation: 5% ~ 95%, non-condensing
- Dimensions
  203mm x 146mm
- Weight
  GW: 800g/NW: 300g

Features

1. 5.25" SBC with Socket G supports Intel® 32nm/45nm Core™ i7/i5/i3 and Celeron® processor
2. Dual-channel 800/1066 MHz DDR3 SDRAM supported (system max. 8 GB)
3. 18/24-bit dual-channel LVDS/analog CRT/dual HDMI output supported
4. Support PCIe x16, dual PCIe Mini card and PCI-104 device
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Dimensions (Unit: mm)



Packing List

1 x NOVA-HM551 single board computer	
1 x Quad port RS-232 adapter cable (P/N: 32205-002000-100-RS)	
2 x SATA with 5V power cable (P/N: 32801-000201-300-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	1 x One Key Recovery CD
1 x KB/MS Y cable (P/N: 32000-023800-RS)	1 x Mini jumper pack
1 x VGA cable (P/N: 32003-000800-100-RS)	1 x Utility CD
1 x USB cable (P/N: 32200-044300-RS)	1 x QIG

Ordering Information

Part No.	Description
NOVA-HM551-R11	5.25" SBC with Socket G1 support Intel® 32nm/45nm Core™ i7/i5/i3 and Celeron® processor, VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 2.0, dual PCIe Mini, PCIe x16, SATA 3Gb/s and Audio, RoHS
NOVA-HM551T-R11	5.25" SBC with Socket G1 support Intel® 32nm/45nm Core™ i7/i5/i3 and Celeron® processor, VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 2.0, dual PCIe Mini, PCIe x16, SATA 3Gb/s and Audio, TPM, RoHS
19800-003100-300-RS	Dual USB cable with bracket
32200-026500-RS	RS-232/422/485 cable
CF-989A-RS-R12	CPU cooler for mobile socket-G (PGA988) up to 55W processor, Copper, 60mm x 60mm x 27.6mm, RoHS
CF-989B-RS	CPU cooler for mobile socket-G (PGA988) 50W processor, Aluminum, 60mm x 60mm x 27.6mm, RoHS
SAIDE-KIT01-R10	SATA to IDE/CF converter board
32200-015100-RS	LPT cable