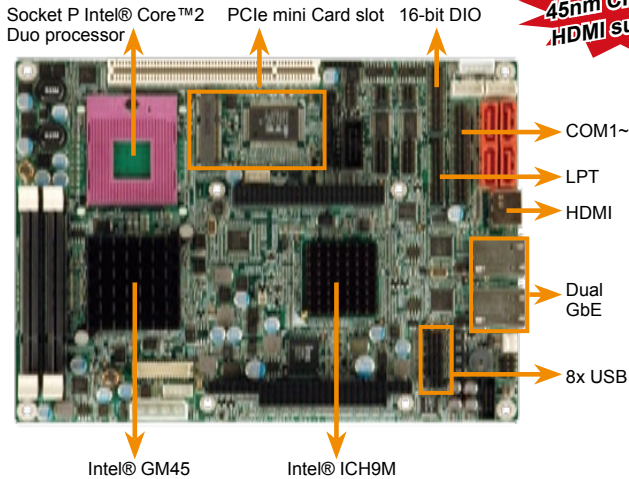


# NOVA-GM45A

5.25" SBC with Socket P for Intel 45nm mobile Core 2 Quad/Duo Penryn CPU, VGA/HDMI/LVDS, Dual PCIe GbE, USB2.0, PCIe mini, SATA II and Audio



| Generation   | Core™2 Duo    |               |               |
|--------------|---------------|---------------|---------------|
|              | 65nm          | 65nm          | 45nm          |
| FSB          | 533 / 667 MHz | 667 / 800 MHz | 800 / 1066MHz |
| Architecture | Merom         | Merom         | Penryn        |
|              | Socket M      | Socket P      | Socket P      |
| TDP          | 34W           | 35W           | 29W           |
| Platform     | 945GME        | GME965        | GM45          |

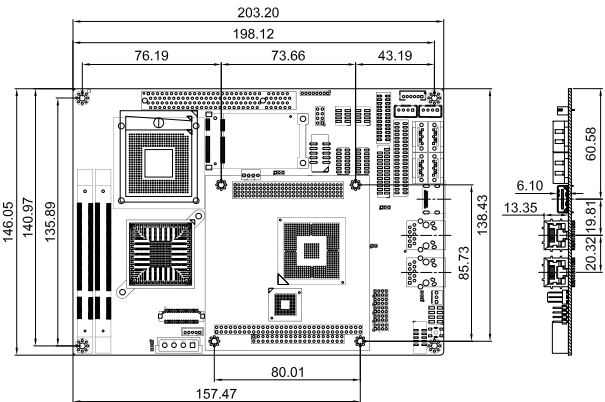
NOVA-9452

NOVA-GM45A

## Features

1. Socket P for Intel® 45nm mobile Core™2 Quad processor with 1066MHz FSB and DDR2 800MHz memory support.
2. Intel® GMA X4500 for DX10, Shader Model 4.0, high performance MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) support
3. VGA, LVDS and HDMI display output interfaces supported
4. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Dimensions (mm)



## Packing List

|   |                                      |
|---|--------------------------------------|
| 1 x NOVA-GM45A single board computer                          |                                      |
| 2 x SATA 5V power output cable kit (P/N: 32801-000100-100-RS) |                                      |
| 1 x Quad ports RS-232 adapter cable (P/N: 32100-147900-RS)    |                                      |
| 1 x Audio Cable (P/N: 32000-072100-RS)                        |                                      |
| 1 x KB/MS Y cable (P/N: 32000-023800-RS)                      | 1 x VGA cable (P/N: 32000-033800-RS) |
| 1 x USB cable (P/N: 32000-070301-RS)                          | 1 x Mini jumper pack                 |
| 1 x Utility CD  | 1 x QIG                              |

## Ordering Information

| Part No.            | Description   |
|---------------------|---|
| NOVA-GM45A-R10      | 5.25" SBC with Socket P for Intel 45nm mobile Core 2 Quad/Duo Penryn CPU, VGA/HDMI/LVDS, Dual PCIe GbE, USB2.0, PCIe mini, SATAII and Audio |
| CB-USB02A-RS        | Dual USB cable with bracket   |
| 32102-000100-100-RS | SATA Power cable  |
| 32102-000100-200-RS |   |
| 32200-026500-RS     | RS-232/422/485 cable  |
| CF-479B-RS          | CPU cooler (50mm x 50mm x 26mm, 50W)  |
| CF-479F-RS          | CPU cooler (50mm x 50mm, 45W)   |
| SAIDE-KIT01-R10     | SATA to IDE/CF converter board  |
| WMPCIE-V01-R20      | PCIe mini card wireless LAN module  |
| WMUSB-V01-R20       | USB mini card wireless LAN module   |
| 32200-015100-RS     | LPT cable   |

1 Industrial Computing Solutions

2 Embedded Computing Solutions

3 Industrial Data Collector and Controller

4 Video Capture Solutions

5 I/O Communication Solutions

6 Panel Solutions

7 ORing Network Communication

8 Power Supply Peripherals

DDR2 800

FSB 1066



## Specifications

- ◆ CPU
  - Socket P Intel® 45nm Core™ 2 Quad/Duo processor with 1066/800MHz FSB
  - Socket P Intel® 45nm Pentium® M/ Celeron® M processor with 800/667MHz FSB
- ◆ FSB
  - 667/800/1066MHz
- ◆ System Chipset
  - Intel® GM45+ICH9M
- ◆ Memory
  - Two 200-pin 800/667 MHz DDR2 SDRAM SO-DIMM supported (system max. 4GB)
- ◆ BIOS
  - AMI BIOS Label
- ◆ Graphic
  - Intel® GMA4500MHD
- ◆ Display Output
  - VGA integrated in the Intel®GM45 support up to QXGA
  - 1 x 18/24-bit dual-channel LVDS
  - 1 x HDMI output resolution supports up to 1080p resolution
- ◆ LAN
  - Dual Realtek RTL8111CP PCIe GbE controllers
- ◆ I/O interface
  - 4 x RS232
  - 2 x RS232/422/485
  - 8 x USB 2.0
  - 1 x LPT
  - 4 x SATA II
  - 1 x KB/MS (by 6-pin header 2.00mm pitch)
- ◆ Digital I/O
  - 16-bit digital I/O, 8-bit input / 8-bit output
- ◆ Extension
  - 1 x PCI slot
  - 1 x PC/104+ (ISA+PCI bus)
  - 1 x PCIe mini card slot ( USB+PCIe signal)
- ◆ FAN connector
  - 1 x 4-pin CPU Fan
  - 1 x 3-pin System Fan
- ◆ Super I/O
  - ITE IT8718F
- ◆ Audio
  - Realtek ALC888 HD Codec
- ◆ Watchdog Timer
  - Software Programmable support 1~255 sec. System reset
- ◆ Power
  - +12V only, AT/ATX power support
- ◆ Power Consumption
  - 12V@5.76A ((2.26GHz Intel® Core2 Quad Q9100 with a 1066MHz FSB and two 2GB 800MHz DDR2 SO-DIMM running 3D Mark2001SE)
- ◆ Temperature
  - Operation: 0°C ~ 60°C (32 ~ 140°F)
- ◆ Humidity
  - Operation: 5% ~ 95%, non-condensing
- ◆ Dimensions
  - 203 mm x 146 mm
- ◆ Weight
  - GW: 850g / NW:290g