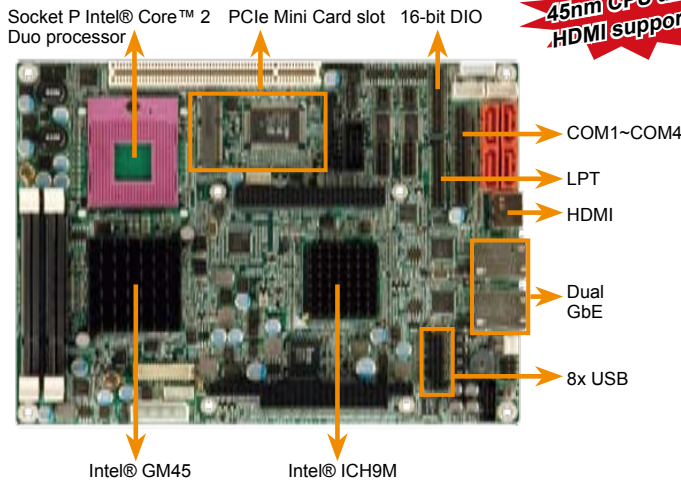


## NOVA-GM45A

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

**NEW**  
12V Only



**45nm CPU and HDMI support**

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

NOVA-9452

NOVA-GM45A



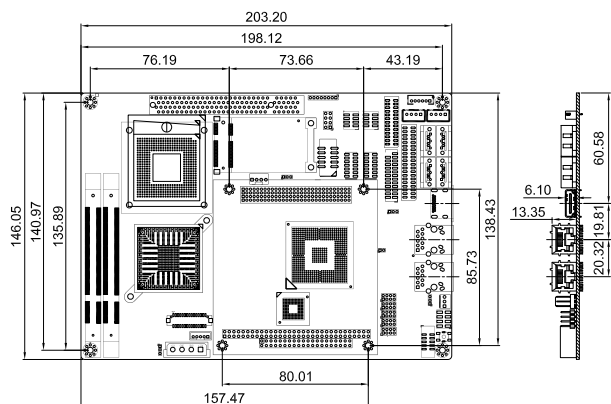
## Specifications

- ◆ CPU  
Socket P Intel® 45nm Core 2 Duo™ processor with 1066/800/667MHz FSB (Penryn Core)
- ◆ 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 x18/24-bit dual channel LVDS  
1 x HDMI output resolution support up to 1080p
- ◆ LAN  
Dual Realtek RTL8111CP PCIe GbE chipsets
- ◆ I/O interface  
4 x RS232  
2 x RS232/422/485  
8 x USB 2.0  
1 x LPT  
4 x SATA with DC power output  
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  
1x4 pin for CPU Fan, 1x3 pin for Chassis 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 (Intel® Core2 Quad Q9100 2.26GHz FSB 1066MHz with 2 x 2GB DDR2 800MHz 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

## Features

1. Socket P for Intel® 45nm mobile Core™2 Duo Penryn CPU with FSB 1066MHz, memory support up to DDR2 800MHz
2. Intel® GMA X4500 for DX10, Shader Model 4.0, high performance MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) support
3. Display output support by VGA, LVDS, HDMI

## Dimensions (mm)



## Packing List

1 x NOVA-GM45A single board computer	
1 x VGA cable (P/N: 32000-033800-RS)	
2 x SATA 5V power output cable Kit (PN: 32801-000100-100-RS)	
1 x KB/MS Y cable (P/N: 32000-023800-RS)	
1 x Quad ports RS-232 adapter cable (PN: 32100-147900-RS)	
1 x USB cable (PN: 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 Duo Penryn CPU, VGA/DVI/LVDS, Dual PCIe GbE, USB2.0, PCIe mini, SATAII and Audio
CB-USB02A-RS	Dual USB cable with bracket
32100-088600-RS	
32102-000100-100-RS	SATA Power cable
32102-000100-200-RS	
32200-026500-RS	RS-232/422/485 cable
CF-478B-RS	CPU cooler (50mm x 50mm x 26mm, 50W)
SAIDE-KIT01-R10	SATA to IDE/CF converter board
WMPCIE-V01-R10	PCIe mini card wireless LAN module
WMUSB-V01-R10	USB mini card wireless LAN module
32200-015100-RS	LPT cable