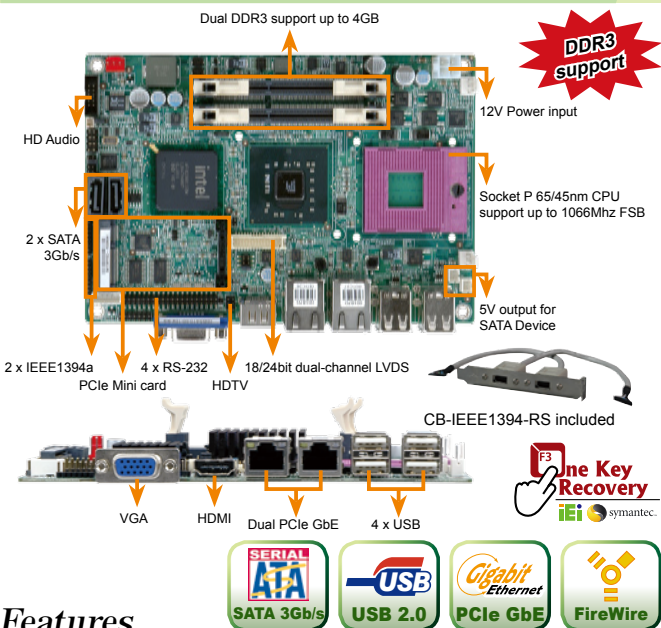


# NANO-GM45A2

EPIC SBC supports Intel® 45nm mobile Core™ 2 Duo processor with Intel® GM45 & ICH9M platform, DDR3/HDMI/IEEE1394



## Features

1. Socket P Intel® 45nm mobile Core™ 2 Duo processor with up to 1066MHz FSB
2. High-performance MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) supported
3. DDR3 1066/800MHz dual channel DDR3 supported (system max. 4 GB)
4. 18/24-bit dual-channel LVDS/Analog CRT/HDTV output/HDMI supported
5. Support four COM, four USB, two SATA 3Gb/s, two IEEE 1394a and audio
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU
  - Socket P Intel® Core™ Duo processor with a 1066/800MHz FSB
  - Socket P Intel® Celeron® M processor with a 667/800 MHz FSB
- ◆ System Chipset
  - Intel® GM45/ICH9M
- ◆ BIOS
  - AMI BIOS
- ◆ System Memory
  - Two 204-pin 1066/800/667 MHz DDR3 SDRAM SO-DIMM supported (system max. 4GB)
  - Support DDR3 at 667MHz when FSB at 667MHz only
- ◆ Ethernet Chipset
  - Dual Realtek 8111CP GbE Chipsets
- ◆ I/O Interface
  - 4 x USB2.0
  - 2 x SATA 3Gb/s
  - 4 x RS-232
  - 2 x IEEE 1394a ports up to 400Mbps data transfer by VIA VT6315N
- ◆ Expansion
  - PCIe Mini card
- ◆ Audio
  - Realtek ALC888 HD Audio
- ◆ Display Interface
  - Intel® Gen 5.0 integrated graphics engine with Mobile Intel® GMA 4500MHD
  - High-performance MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC)
  - Microsoft DirectX™10 support
  - Analog CRT resolution up to 2048x1536
  - 18/24-bit dual channel LVDS resolution up to 1920x1200
  - HDTV-out resolution up to 1920x1080i by component interface
  - HDMI port supports up to 1080i/p
- ◆ WDT
  - Software programmable supports 1 ~ 255 sec. system reset
- ◆ Power Supply
  - 12V only, AT/ATX supported
- ◆ Power Consumption
  - 12V@3.06A (Intel® Core™ 2 Duo T9400 2.53GHz, 1GB DDR3 1066 MHz)
  - ◆ Temperature Operation: -10°C ~ 60°C
  - ◆ Humidity Operation: 5% ~ 95 non-condensing
- ◆ Dimension
  - 165 mm x 115 mm
- ◆ Weight
  - GW: 700g NW 350g

## Packing List

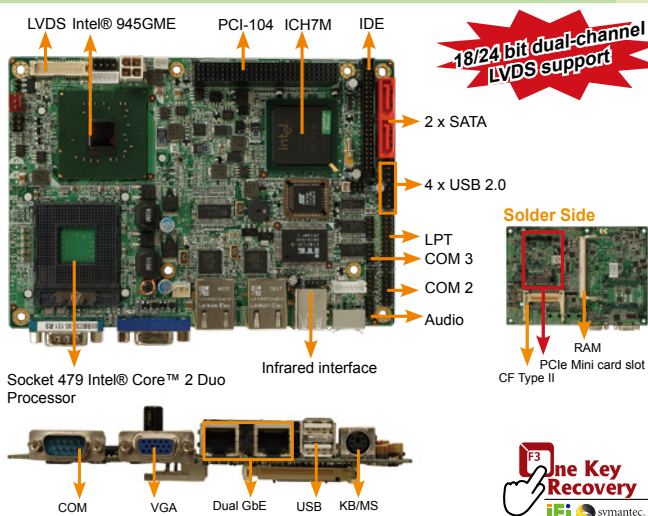
1 x NANO-GM45A2 single board computer	
1 x Dual port IEEE1394 cable (P/N: CB-IEEE1394-RS)	
1 x Quad RS-232 cable (P/N: 32100-147900-RS)	
1 x Mini jumper pack	1 x Power cable (P/N: 32100-087100-RS)
2 x SATA cable (P/N: 32000-062800-RS)	1 x Audio cable (P/N: 32000-072100-RS)
1 x Utility CD	1 x QIG

## Ordering Information

Part No.	Description
NANO-GM45A2-R10	EPIC SBC supports Intel® 45nm mobile Core™ 2 Duo processor with Intel® GM45 & ICH9M platform, DDR3, dual GbE, LVDS/ CRT/HDTV-out, SATA 3Gb/s, USB2.0
CF-479B-RS	CPU cooler
32000-083702-RS	HDTV cable set with S-Video, composite and component interfaces
32102-000100-200-RS	SATA power cable
32000-114001-RS	SATA 5V power output cable kit for NANO series, SATA cable 20cm, power cable 20cm
32100-043403-RS	ATX power cable

# NANO-9452-R40

EPIC with Intel® Core™ 2 Duo/ Core™ Duo/ Solo processor, SATA, Dual PCIe GbE, CF Type II, IDE, USB 2.0 & audio



## Features

1. Support Intel® Core™ 2 Duo, Core™ Duo/ Solo processor with 667 MHz FSB
2. VGA integrated in Intel® 945GME supports 1080i HDTV-out, 18/24-bit dual-channel LVDS
3. DDR2 667/533/400 MHz SO-DIMM socket supports up to 2 GB
4. Dual PCIe broadcom BCM5787M GbE chipset
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU
  - Socket M Intel® Core™ 2 Duo, Core™ Duo/Solo processor with a 667MHz FSB
  - Celeron® M processor with a 533MHz FSB (Yonah Core)
- ◆ System Chipset
  - Intel® 945GME + ICH7M
- ◆ BIOS
  - AMI BIOS
- ◆ System Memory
  - One 200-pin 667/533/400MHz DDR2 SDRAM SO-DIMM supported (system max. 2GB)
- ◆ Ethernet
  - Dual PCIe Realtek RTL8111E GbE chipset
- ◆ I/O Interface
  - 6 x USB 2.0
  - 2 x SATA
  - 1 x IDE
  - 3 x RS-232
  - 1 x RS-232/422/485
  - 1 x PS/2 for KB/MS
  - 1 x LPT
  - 1 x CF Type II
- ◆ Infrared Interface
  - 1 x Infrared interface by pin header
- ◆ Expansions
  - 1 x PCI-104 (PCI bus)
- ◆ Super I/O
  - ITE IT8712F
- ◆ Digital I/O
  - 8-bit digital I/O, 4-bit input/ 4-bit output by super I/O
- ◆ Audio
  - 5.1 channel audio kit with Realtek ALC655 AC'97 codec
  - 7.1 channel HD audio kit with Realtek ALC888 codec supports dual audio streams
- ◆ Display Interface
  - VGA Integrated in Intel® 945GME
  - Support HDTV resolution up to 1080i by component interface
  - 18/24-bit dual-channel LVDS
- ◆ Watchdog Timer
  - Software programmable 1-255 sec. by super I/O
- ◆ Power Supply
  - 12V only AT/ATX support
- ◆ Power Consumption
  - 12V@2.99A (Intel® Core™ 2 Duo T2500 2.0GHz, 2GB 800 MHz DDR II)
- ◆ Temperature
  - Operating: 0°C ~ 60°C (32 ~ 140° F)
- ◆ Humidity
  - Operating: 5% ~ 95% non-condensing
- ◆ Dimensions
  - 165 mm x 115 mm

## Packing List

1 x NANO-9452 single board computer	
2 x RS-232 cable (P/N: 32200-000049-RS)	
1 x KB/MS cable (P/N: 32006-000300-100-RS)	
1 x SATA power cable (P/N: 32102-000100-200-RS)	
2 x SATA cable (P/N: 32000-062800-RS)	1 x IDE cable (P/N: 32200-000009-RS)
1 x Mini jumper pack	1 x Power cable (P/N: 32100-087100-RS)
1 x Utility CD	1 x QIG

## Ordering Information

Part No.	Description
NANO-9452-R40	EPIC SBC, Intel® Core™ 2 Duo, Core Duo/ Solo FSB 667MHz with VGA/LVDS/HDTV-out, Dual PCIe GbE, SATA and audio
32000-044300-RS	USB cable
19800-000110-RS	RS-232/422/485 cable
AC-KIT08R-R10	5.1 channel AC' 97 Audio Kit with Realtek ALC655 codec
AC-KIT-888HD-R10	7.1 channel HD audio kit with realtek ALC888 codec support dual audio streams
CF-479B-RS	CPU cooler (50 mm x 50 mm x 26 mm, 50W )
32200-015100-RS	LPT cable
32100-043403-RS	ATX power cable
32000-083701-RS	HDTV out cable