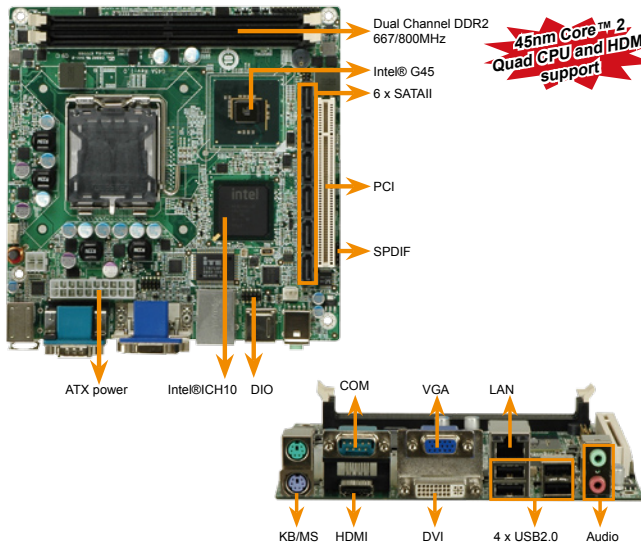


# KINO-G45A

Mini-ITX SBC with Socket LGA775 for Intel® 45nm Core™ 2 Duo/Quad CPU with FSB 1333MHz, VGA/DVI/HDMI, PCIe GbE, USB2.0, SATAII and Audio



## Features

1. Socket LGA775 for Intel® 45nm Core™ 2 Duo/Quad CPU with FSB 1333MHz
2. Intel® GMA X4500HD for DX10 and OpenGL 2.0 support, high performance MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) support
3. Display output support by VGA, HDMI, DVI
4. HDMI supporting all HD formats including 720p, 1080i, and 1080p.
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU  
Supports Intel® Core™ 2 Duo/Quad/Extreme processor with FSB 800/1066/1333MHz
- ◆ System Chipset  
Intel® G45+ ICH10
- ◆ BIOS  
AMI BIOS
- ◆ Memory  
Two 240-pin 667/800 DDR2 dual-channel SDRAM DIMMs supported (system max. 4GB)
- ◆ Ethernet  
Realtek RTL8111CP PCIe GbE Controller
- ◆ I/O Interface  
6 x USB2.0  
6 x SATAII  
1 x PS2 for KB/MS  
1 x RS-232
- ◆ Graphic  
Intel® GMA X4500HD for DX10 and OpenGL 2.0 support
- ◆ Display Output  
VGA integrated in the Intel® G45 support up to QXGA  
Support HDMI integrated in the Intel® G45 DVI-D output support
- ◆ Expansion  
1 x PCI
- ◆ SPDIF  
1 x 5pin header
- ◆ Digital I/O  
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Super IO  
ITE IT8718F
- ◆ Audio  
Realtek ALC888 HD codec
- ◆ FAN  
1 x CPU FAN  
1 x System FAN
- ◆ Watchdog Timer  
Software Programmable support 1~255 sec.  
System reset
- ◆ Power Supply  
ATX power
- ◆ Power Consumption  
5V@6.99A, 12V@3.54A, 3.3V@0.38A, 5VSB@0.07A(3.16GHz Intel® Core™ 2 Duo E8500 with 2GB\*2 DDRII 800MHz)
- ◆ Temperature  
Operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity  
Operation: 5% ~95% non-condensing
- ◆ Dimensions  
170 mm x 170 mm
- ◆ Weight  
GW: 1000g / NW: 390 g

## Packing List

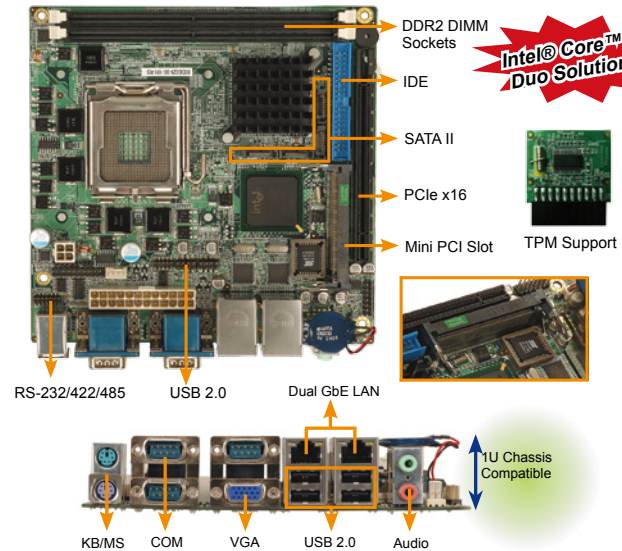
1 x KINO-G45A single board computer
6 x SATA cable (P/N: 32000-062800-RS)
1 x Dual USB cable (PN: CB-USB02-RS)
1 x I/O shielding (P/N: 45014-0028C0-00-RS)
1 x Mini jumper pack
1 x Utility CD
1 x QIG

## Ordering Information

Part No.	Description
KINO-G45A-R10	Mini-ITX SBC with Socket LGA775 for Intel® 45nm Core™ 2 Duo/Quad CPU with FSB 1333MHz, VGA/DVI/HDMI, PCIe GbE, USB2.0, SATAII and Audio
32102-000100-100-RS	SATA Power cable
CF-520-RS-R11	CPU cooler (115mm x 115mm x 67mm, 115W)
CF-775A-RS	CPU cooler (92mm x 925mm x 73mm, 130W)
SAIDE-KIT01-R10	SATA/IDE/CF converter board

# KINO-9454-R20

Intel® Core™ 2 Duo/Pentium® 4/Pentium® D 1066/800/533 MHz CPU Mini-ITX Motherboard with, SATA II, Dual PCIe GbE, USB 2.0 and Audio



## Features

1. Intel® Core™ 2 Duo, Pentium® 4/ Pentium® D FSB 1066/800/533 MHz processor
2. VGA integrated in the Intel® 945G
3. DDR2 667/533/400 MHz DIMM socket supports up to 4GB
4. Dual PCIe Broadcom BCM5787M GbE chipset
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU  
LGA 775 Intel® Core™ 2 Duo, Pentium® D/4/ Celeron® D with a 533/800/1066 MHz FSB
- ◆ System Chipset  
Intel® 945G + ICH7
- ◆ BIOS  
AMI BIOS
- ◆ System Memory  
Two 240-pin 2GB (maximum) 400/533/667 MHz dual-channel DDR2 DIMM supported (maximum system memory of 4 GB)
- ◆ Ethernet  
Dual PCIe Broadcom BCM5787M GbE chipset with ASF2.0 remote control support.
- ◆ I/O Interface  
8 x USB 2.0  
4 x SATA II  
1 x IDE  
3 x RS-232  
1 x RS-232/422/485  
2 x PS/2 for KB/MS  
1 x 20-pin LPC (TPM Module)
- ◆ Expansions  
1 x PCIe x16  
1 x Mini PCI
- ◆ Infrared Interface  
One infrared Interface by pin header
- ◆ Super I/O  
ITE 8712F
- ◆ Digital I/O  
8-bit digital I/O, 4-bit input/ 4-bit output by super I/O
- ◆ Audio  
Realtek ALC655 with AC'97 codec
- ◆ SSD  
N/A
- ◆ Display Interface  
VGA integrated in the Intel® 945G
- ◆ Watchdog Timer  
Software programmable 1-255 sec. by super I/O
- ◆ Power Supply  
ATX support
- ◆ Power Consumption  
5V@1.8A, 12V@5.81A, 3.3V@3.49A, 5VSB@0.37A (3.06GHz Intel® Pentium® 4 CPU with a 533 MHz 1GB DDR2 DIMM)
- ◆ Temperature  
Operating: 0°C ~ 60°C (32 ~ 140° F)
- ◆ Humidity  
Operating: 5% ~ 95% non-condensing
- ◆ Dimensions  
170 mm x 170 mm
- ◆ Weight: GW: 1100 g; NW: 400 g

## Packing List

1 x KINO-9454 single board computer
1 x IDE cable (P/N: 32200-000052-RS)
1 x SATA power cable (P/N: 32102-000100-100/200-RS)
2 x SATA cable (P/N: 32000-062800-RS)
1 x I/O shielding (P/N: 41003-0186C0-00-RS)
1 x Mini jumper pack
1 x Utility CD
1 x QIG

## Ordering Information

Part No.	Description
KINO-9454-R20	Intel® Core™ 2 Duo/Pentium® D 1066 MHz CPU Mini-ITX Motherboard with, Dual PCIe GbE, SATA II and audio
19800-000110-RS	RS-232/422/485 cable
CB-USB02-RS	Dual USB cable
CB-USB14-RS	Four USB cable
CF-520-RS	CPU cooler
CF-775A-RS	CPU cooler
TPM-WI01-R10	20-pin WINBOND TPM module, S/W management tool
TPM-IN01-R10	20-pin INFINEON TPM module, S/W management tool