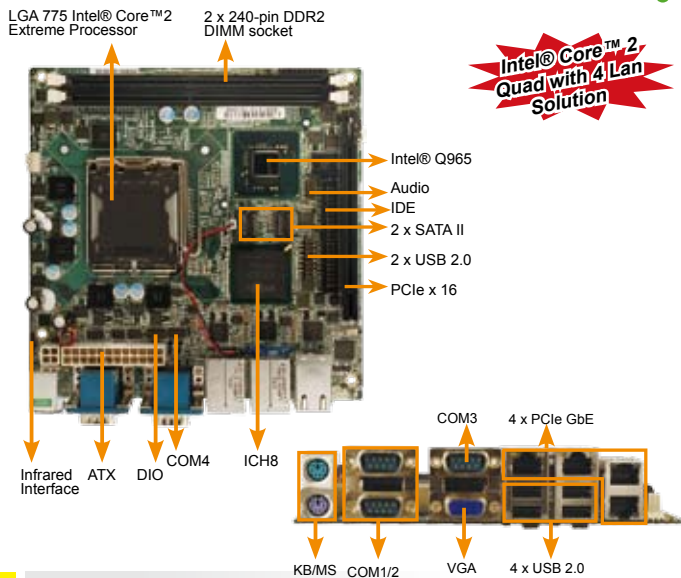


# KINO-9654G4

Mini-ITX Motherboard, Intel® Core™2 Extreme CPU with VGA, Four PCIe GbE, USB 2.0 and SATA II



**Intel® Core™ 2 Quad with 4, Lan Solution**

## Features

1. Mini-ITX Form Factor and RoHS compliance
2. Intel® Core™2 Extreme processor in the LGA 775 package
3. Integrated Intel® GMA 3000 graphic engine that offers adequate display quality via Intel® Q965
4. Four High performance PCI Express Gigabit Ethernet controller
5. Dual-channel DDR2 533/667/800 MHz SDRAM support up to 4GB
6. 4 x RS-232, 6 x USB 2.0 and 2 x SATA II

## Specifications

- ◆ CPU: LGA 775 Intel® Core™2 Extreme, Core™2 Quad, Core™2 Duo, Pentium® D, Celeron® D with 533/800/1066MHz FSB
- ◆ System Chipset: Intel® Q965 + ICH8
- ◆ BIOS: AMI Flash BIOS
- ◆ System Memory: 2 x 240-PIN Dual-channel DDR2 533/667/800 MHz up to 4GB
- ◆ Ethernet: Four Broadcom BCM5787M PCIe GbE chipset
- ◆ I/O Interface: 4 x RS-232, 6 x USB 2.0, 2 x SATA II, 1 x IDE, 2 x PS/2 for KB/MS
- ◆ Expansions: 1 x PCIe x16, ◆ Digital I/O: 8-bit digital I/O, 4-bit input/ 4-bit output, ◆ Infrared Interface: 1 x Infrared Interface by pin header
- ◆ Super I/O: IT8712F
- ◆ Display Interfaces: VGA Integrated in Intel® Q965
- ◆ Audio: 7.1 channel HD audio kit with Realtek ALC883 codec supports dual audio streams
- ◆ Watchdog Timer: Software programmable supports 1 ~255 sec. system reset
- ◆ Power Supply: ATX Power
- ◆ Power Consumption: 5V@6.62A, 12V@7.56A, 3.3V@ 5.15A(Intel® Core2 Extreme QX6700 2.66GHz/1066MHz CPU with 1GB DDR2 800MHz)
- ◆ Temperature: Operating: 0°C ~ 60°C ( 32°F ~ 140°F)
- ◆ Humidity: Operating: 5% ~95% non-condensing
- ◆ Dimensions: 170 mm x 170 mm
- ◆ Weight: GW: 1000 g / NW: 400 g

## Packing List

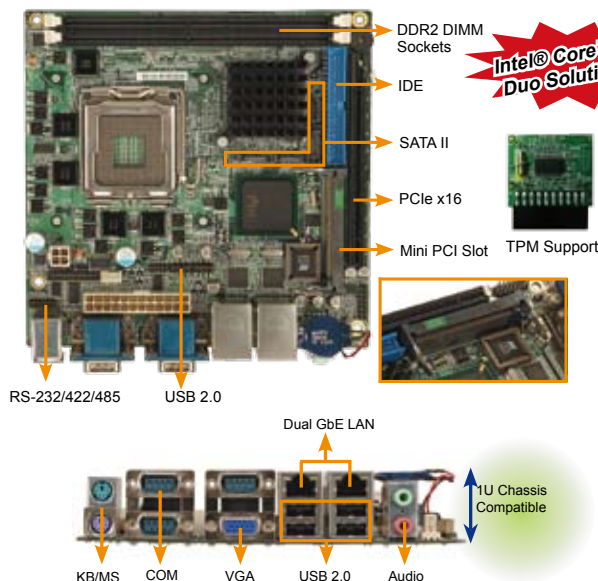
1 x KINO-9654G4 Single board computer	
1 x Mini Jumper Pack	
1 x ATA66 Flat cable (P/N: 32200-000052-RS)	
2 x SATA cable (P/N: 32000-0628000-RS)	
1 x SATA power cable (P/N: 32100-088600-RS)	
1 x RS-232 cable (P/N: 32200-000049-RS)	
1 x I/O shielding (P/N: 45014-0009C0-00-RS)	
1 x Utility CD	1 x QIG

## Ordering Information

Part No.	Description
KINO-9654G4-R10	Mini-ITX Motherboard, Intel® Core™2 Extreme, Core™2 Quad, Core™2 Duo CPU with VGA, Four PCIe GbE, USB 2.0 and SATA II
CB-USB02-RS	Dual USB Cable
AC-KIT-883HD-R10	7.1 Channel HD Audio Kit with Realtek ALC883 supports dual audio streams
CF-520-RS	CPU cooler (115mm x 115mm x 67mm, 115W)
CF-775A-RS	CPU cooler (92mm x 92mm x 73mm, 130W)
SDVO-100VGA-R10	PCIe x16 VGA Output SDVO card supports dual display (IEI CPU board only)
SDVO-100DVI-R10	PCIe x16 DVI Output SDVO card supports dual display (IEI CPU board only)

# 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



**Intel® Core™ 2 Duo Solution**

## 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

## 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: 32100-088600-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

1 Industrial Computing Solutions

2 Embedded Computing Solutions

3 RISC-Based Embedded Solutions

4 Industrial Data Collector/ Server Solutions

5 Video Capture Solutions

6 I/O Communication Solutions

7 Panel Solutions

8 Power Supply/ Network Communication/ Peripherals