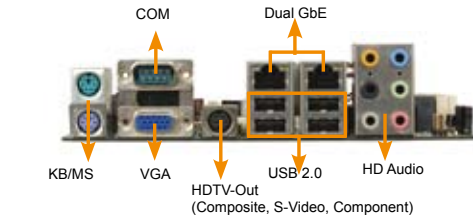
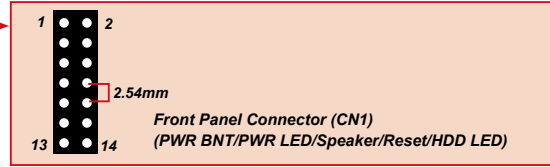
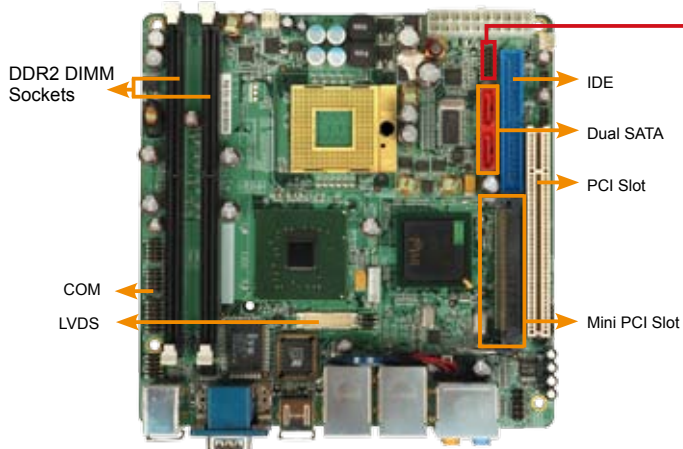


# KINO-9452-R11

Mini-ITX Motherboard with Intel® Core™2 Duo, Core™ Duo/Solo Processor, Dual PCIe GbE, HDTV output & Two independent stream Audio

- 1 Application Server Platform
- 2 Single Board Computer
- 3 IBX Series POS PC
- 4 AFOLLUX POS Panel PC
- 5 Video Capture Card
- 6 KAMIO RISC
- 7 IOVU Open HMI
- 8 VITO Universal Controller
- 9 DINO BLADE
- 10 LCD Product Series
- 11 Embedded System
- 12 Industrial Computer Chassis
- 13 Power Supply
- 14 Peripherals



FP Unit	FP Unit
EXE Core	EXE Core
L1 Cache	L1 Cache
L2 Cache	
System Bus (667MHz, 533MB/s)	

New Intel Core™2 Duo Processor



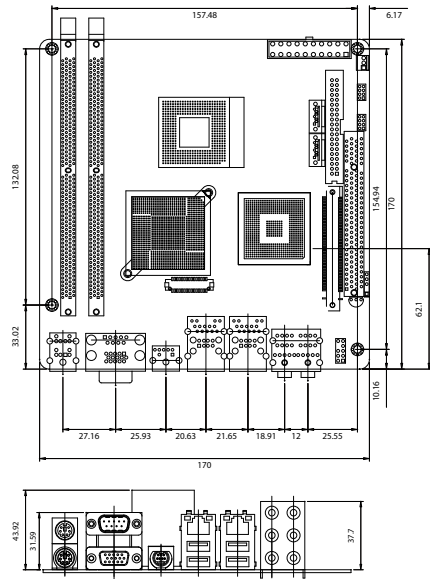
## Specifications

- ◆ CPU  
Socket M Intel® Core™2 Duo, Core Duo/Solo with 667 MHz FSB, Intel® Celeron® M 533 MHz FSB
- ◆ System Chipsets  
Intel® 945GM + ICH7M
- ◆ BIOS  
AMI BIOS Label
- ◆ System Memory  
2 x 240-pin dual-channel DDR2 400/533/667 MHz up to 4GB
- ◆ Ethernet  
Dual PCIe Broadcom BCM5787M GbE chipsets with ASF2.0 remote control support
- ◆ I/O Interface  
8 x USB 2.0  
2 x SATA  
1 x IDE  
3 x RS-232  
1 x RS-232/422/485  
2 x PS/2 for KB/MS
- ◆ Expansions  
1 x Mini PCI Slot  
1 x PCI
- ◆ Super I/O  
ITE IT8712F
- ◆ Digital I/O  
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ HD Audio  
Realtek ALC883 HD Audio codec with dual streams audio support
- ◆ SSD  
N/A
- ◆ Display Interface  
Overscaling / Component, S-Video and Composite output  
Support HDTV resolution up to 1080i by component interface  
18-bit dual-channel LVDS
- ◆ Watchdog Timer  
Software programmable 1-255 sec. system reset
- ◆ Power Supply  
AT/ ATX support
- ◆ Power Consumption  
5V@1.58A, 12V@2.05A, 3.3V@3.12A, 5VSB@0.32A  
(Intel® Core™2 Duo.16GHz, DDR2 1GB x 2)
- ◆ 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

## Features

1. Support Intel® Core™2 Duo, Core Duo/Core Solo processor up to FSB 667MHz
2. VGA integrated in Intel® 945GM support HDTV-Out, 18-bit dual-channel LVDS
3. DDR2 400/533/667MHz DIMM socket support up to 4GB
4. Dual PCIe Broadcom BCM5787M GbE chipsets

## Dimensions (mm)



## Packing List

1 x KINO-9452 Single Board Computer
1 x Dual RS-232 Cable (P/N: 32200-028401-RS)
1 x ATA66/100 Flat 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: 45002-4520C0-00-RS)
1 x Mini Jumper Pack
1 x Utility CD
1 x QIG (Quick Installation Guide)
1 x HDTV out cable (P/N32000-083100-RS)

## Ordering Information

Part No.	Description
KINO-9452-R11	Mini-ITX Motherboard with Intel® Core Duo/ Core Solo Processor, SATA, Dual PCIe GbE, USB 2.0 & Audio
32200-000077-RS	RS-232/422/485 Cable
CB-USB02-RS	USB Cable
CF-479B-RS	CPU Cooler