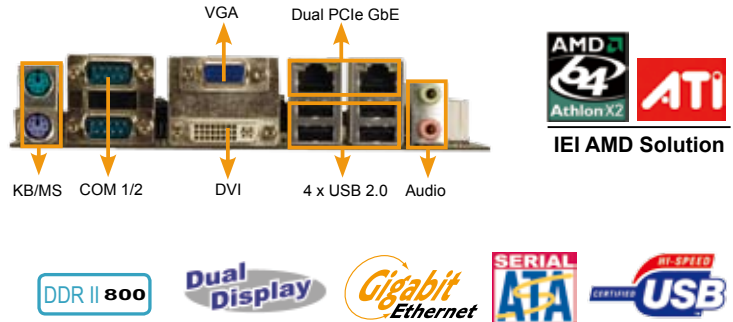
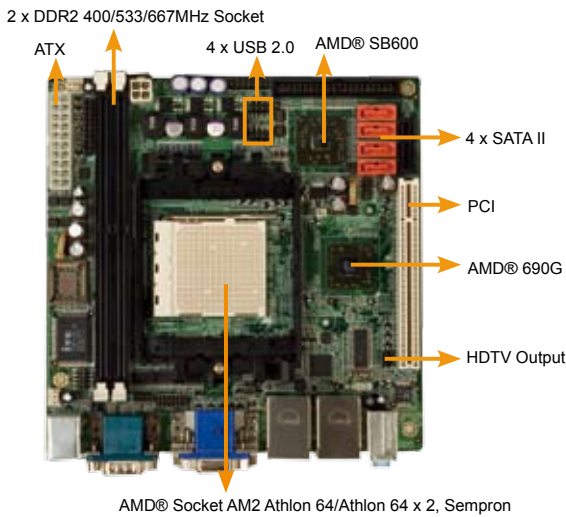


# KINO-690AM2

Mini-ITX Motherboard with Socket AM2 for AMD® Athlon 64, Athlon 64 x 2, Sempron CPU, VGA/DVI/HDTV, Dual PCIe GbE, USB 2.0, SATA II and Audio



## Specifications

- ◆ CPU  
AMD® Socket AM2 Athlon 64, Athlon 64 x 2, Sempron with 2000MHz Hyper Transport support
- ◆ System Chipsets  
AMD® 690G + SB600
- ◆ BIOS  
AMI BIOS Label
- ◆ System Memory  
2 x 240-pin DDR2 400/533/667/800MHz up to 2GB
- ◆ Ethernet  
Dual Broadcom BCM5787M PCI Express GbEchipset
- ◆ I/O Interface  
3 x RS-232  
1 x RS-232/422/485  
8 x USB 2.0  
4 x SATA II with RAID 0,1, 10 support  
1 x IDE  
2 x PS/2 for KB/MS  
1 x 20-pin LPC for TPM
- ◆ Expansions  
1 x PCI
- ◆ Digital I/O  
8 bit digital I/O, 4 input/ 4 output
- ◆ Infrared Interface  
1 x Infrared Interface by pin header
- ◆ Super I/O  
ITE IT8712F
- ◆ Display Interface  
VGA integrated in AMD® 690G  
Support HDTV resolution up to 1080i / 1080p by component interface  
DVI by AMD® 690G with dual display support
- ◆ Audio  
Realtek ALC655 with AC'97 codec
- ◆ SSD  
N/A
- ◆ Watchdog Timer  
Software programmable supports 1 ~255 sec. system reset
- ◆ Power Supply  
AT/ATX Power
- ◆ Power Consumption  
5V@4.9A, 12V@2.7A  
(AMD® Athlon 64x2 3400+ 1.8GHz CPU with 1GB DDR2)
- ◆ Temperature  
Operating: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity  
Operating: 5% ~ 95% non-condensing
- ◆ Dimensions  
170 mm x 170 mm
- ◆ Weight  
GW: 1100 g / NW: 402 g

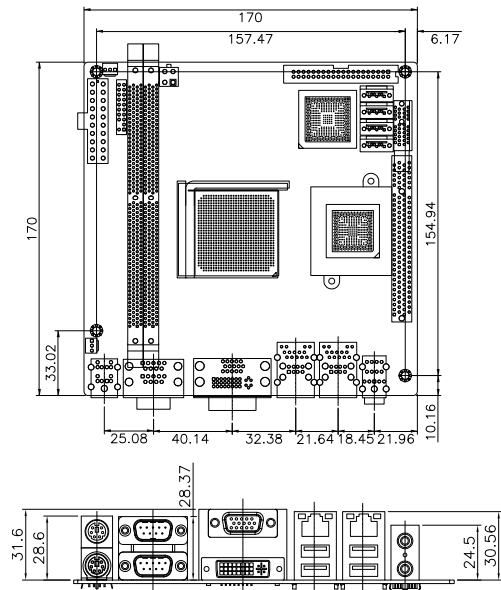
## Packing List

- 1 x KINO-690AM2 Single Board Computer
- 1 x ATA66/100 Flat Cable (P/N: 32200-000052-RS)
- 2 x SATA Cable (P/N: 32000-062800-RS)
- 1 x SATA Power Cable (P/N: 32100-088600-RS)
- 1 x Dual RS-232 Cable (P/N: 32200-028401-RS)
- 1 x I/O Shielding (P/N: 45014-0008C0-00-RS)
- 1 x Mini Jumper Pack
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)

## Features

1. Mini-ITX form factor and RoHS compliant
2. AMD® Athlon 64, Athlon 64 x 2, Sempron with 2000MHz Hyper Transport support
3. Support DDR2 400/533/667MHz up to 2GB
4. Support VGA, DVI and HDTV-out with dual display support
5. 4 x RS-232, 8 x USB 2.0 and 4 x SATA II

## Dimensions (mm)



## Ordering Information

| Part No.        | Description  |
|-----------------|--|
| KINO-690AM2-R10 | Mini-ITX Motherboard with Socket AM2 for AMD® Athlon 64, Athlon 64 x 2, Sempron CPU, VGA/DVI/HDTV, Dual PCIe GbE, USB 2.0, SATA II and Audio |
| 32200-000077-RS | RS-232/422/485 Cable   |
| CF-AM2-RS       | CPU Cooler   |
| CB-USB02-RS     | Dual-port USB Cable  |
| CB-USB14-RS     | Four-port USB Cable  |
| 32000-083701-RS | HDTV Output Cable  |
| 24105-000029-RS | AMD® Athlon 64x2 Dual Core 3400+, 1.8GHz; 512KBx2, 1000MHz, TDP 35W, Socket AM2 (940pins), RoHS  |
| 24105-000052-RS | AMD® Athlon 64 Single Core 3000+, 1.8GHz; 512KB, 1000MHz, TDP 35W, Socket AM2 (940pins), RoHS  |
| TPM-WI01-R10    | 20-pin WINBOND TPM Module, S/W Managenet Tool  |
| TPM-IN01-R10    | 20-pin INFINEON TPM Module, S/W Managenet Tool   |