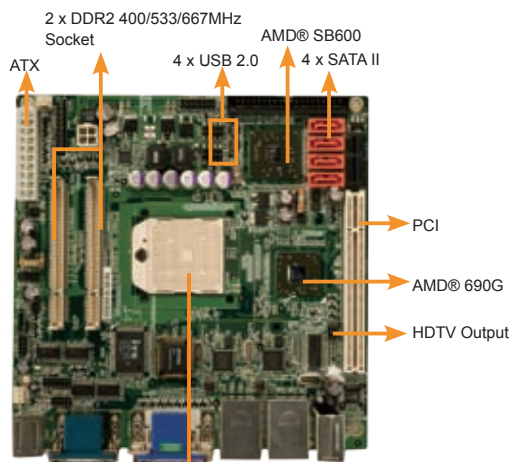
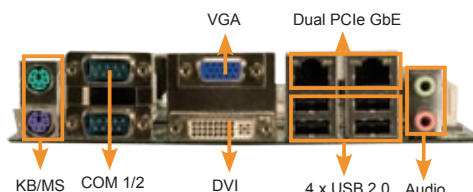


# KINO-690S1

Mini-ITX Motherboard with Socket S1 AMD® Turion 64 x 2, Mobile Sempron CPU, VGA/DVI, Dual PCIe GbE, USB 2.0, SATA II and Audio



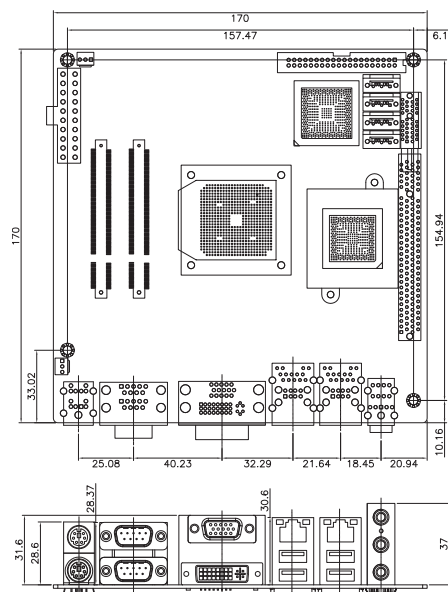
AMD® Socket S1 Turion 64, Turion 64 x 2, Mobile Sempron



## Features

1. Mini-ITX form factor and RoHS compliant
2. AMD® Turion 64 x 2, Mobile Sempron with 1600MHz 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



## Ordering Information

Part No.	Description
KINO-690S1-R10	Mini-ITX Motherboard with Socket S1 AMD® Turion 64 x 2, Mobile Sempron CPU, VGA/DVI/TV-out, Dual PCIe GbE, USB 2.0, SATA II and Audio
32200-000077-RS	RS-232/422/485 Cable
CB-USB02-RS	Dual-port USB Cable
CB-USB14-RS	Four-port USB Cable
CF-479B-RS	CPU Cooler
32000-083701-RS	HDTV Output Cable
24105-000047-RS	AMD® Turion 64x2 Dual Core TL-60, 2.0GHz; 512KBx2, 800MHz, TDP 35W, Socket S1 (638pins), RoHS
24105-000044-RS	AMD® Turion 64x2 Dual Core TL-52, 1.6GHz; 512KBx2, 800MHz, TDP 31W, Socket S1 (638pins), RoHS
24105-000045-RS	Mobile AMD® Sempron Single Core 3500+, 1.8GHz; 512KB, 800MHz, TDP 25W, Socket S1 (638pins), RoHS
24105-000053-RS	Mobile AMD® Sempron Single Core 2100, 1GHz; 256KB, 800MHz, TDP 9W, Socket S1 (638pins), RoHS

## Specifications

- ◆ **CPU**  
AMD® Socket S1 Turion 64, Turion 64 x 2, Mobile Sempron up to 1600MHz Hyper Transport support
- ◆ **System Chipset**  
AMD® 690G + SB600
- ◆ **BIOS**  
AMI BIOS Label
- ◆ **System Memory**  
2 X 200 pin SO-DIMM DDR2 400/533/667 MHz up to 2GB
- ◆ **Ethernet**  
Dual PCIe Broadcom BCM5787M GbE chipsets
- ◆ **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
- ◆ **Expansions**  
1 x PCI
- ◆ **Digital I/O**  
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ **IrDA**  
1 x IrDA by pin header
- ◆ **Super I/O**  
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@3.65A, 12V@1.12A  
(AMD® Mobile Sempron 3500+ CPU with 512MB DDR2 667MHz)
- ◆ **Temperature**  
Operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ **Humidity** Operation: 5% ~95% non-condensing
- ◆ **Dimensions** 170mm x 170mm
- ◆ **Weight** GW: 900g / NW: 342g

## Packing List

1 x KINO-690S1 Single Board Computer
1 x IDE Cable (P/N: 32200-008800-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: 19800-000051-RS)
1 x I/O Shielding
1 x Mini Jumper Pack
1 x Utility CD
1 x QIG (Quick Installation Guide)

1

Single Board Computer

2

VIDEO CARD

3

Xscale Solutions

4

Open HMI

5

VITO Universal Controller

6

DINO BLADE

7

LCD Product Series

8

Embedded System

9

Industrial Computer Chassis

10

Power Supply

11

Peripherals