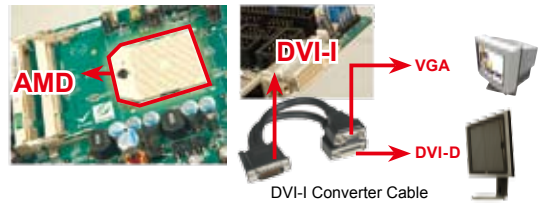
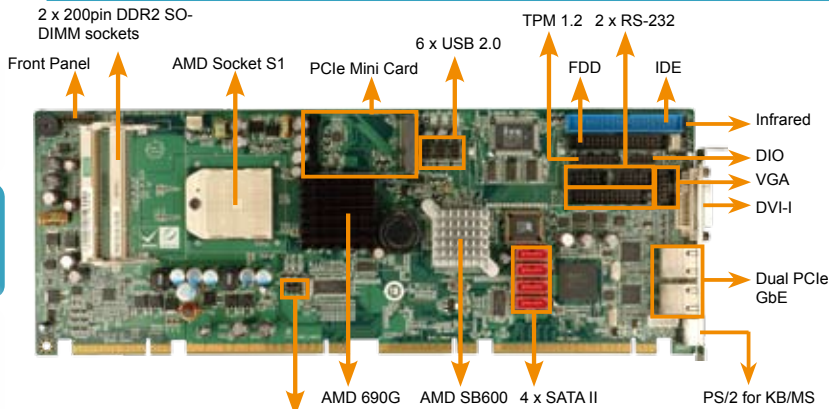


# PCIE-690S1

Full-size PICMG 1.3 CPU card supports Socket S1 AMD processors with HyperTransport™ Technology and comes with AMD 690G and AMD SB600 chipsets, multi-display interfaces, four SATA II connectors with RAID functions, PCIe Mini Card Slot and Dual PCIe GbE



### Instant Solutions of AMD Socket S1 CPU



**Turion™ 64 x2**  
TL-62 (Dual Core 2.1GHz 31W)  
TL-52 (Dual Core 1.6 GHz 31W)



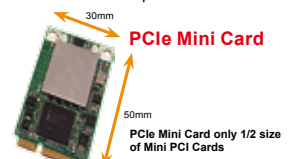
**Mobile Sempron™**  
Mobile 3500+ (1.6GHz 25W)  
Mobile 2100+ (1.0GHz 8W)

### Turion™ 64 x2 Features

- Dual core processing
- Power optimized HyperTransport™ technology for high speed I/O communication
- High-bandwidth, low-latency integrated memory controller
- Made for mobility with Power Now! and additional low voltage Deeper Sleep state reduces power consumption

### Benefit

- Half the size of mini-PCI
- Higher bandwidth interface
- Rigid mechanical spec.



### Features

- WMV9/MPEG-4/MPEG-2 Hare encode
- Supports max. Resolution of 2048 x 1536@32bpp
- VGA+ DVI/TV+DVI for Multi Displays Option
- Supports AVIVO Advanced Video Processing Technology
- Full DirectX 9.0 Supports/Vertex Shader2.0/Pixel Shader 2.0



50W TV/ HDTV-out (Support S-video, composite, component output)

CF-479B-RS (50mm x 50mm x 26mm)



## Specifications

- ◆ CPU  
Socket S1 AMD Turion™ 64 X2, Turion™ 64 and Mobile Sempron™ processors
- ◆ HyperTransport™ Technology  
200 MHz, 400 MHz, 600 MHz or 800 MHz HyperTransport™ interface
- ◆ System Chipset  
AMD® 690G + SB600
- ◆ BIOS  
AMI
- ◆ System Memory  
Two 200-pin 1 GB (max.) 667 MHz or 533 MHz dual-channel DDR2 SDRAM SO-DIMM supported (system max. 2 GB)
- ◆ Ethernet  
Dual Broadcom BCM5787M PCIe GbE controllers
- ◆ IO Interface  
2 x RS-232  
1 x LPT  
10 x USB 2.0 (Six on-board and four on the backplane)  
4 x SATA II support RAID 0, 1, 0+1  
1 x IDE  
1 x FDD  
1 x Keyboard and mouse (PS/2)  
1 x Keyboard (on-board)
- ◆ Digital I/O  
8-bit Digital I/O, 4-bit input / 4-bit output
- ◆ Infrared connector  
1 x Infrared by pin header
- ◆ Audio  
10-pin on-board header connects to the I/EI AC-KIT883HD 7.1 channel HD Audio kit
- ◆ Graphic  
1. ATI Radeon Express 1250 graphic engine intergated in AMD 690G provides VGA/DVI-I/TV(S-Video, Composite, Component) interfaces  
2. AVIVO provides advanced scaling, color correction of video playback processing, HW decoding(WMV9, MPEG2/MPEG4), 2D/3D H/W Accelerating  
3. Supports max.1080i HDTV format of YPbPr component output and NTSC/PAL TV with S-Video/Composite output
- ◆ Dual Display Configurations  
DVI-D + VGA  
HDTV(Composite, S-Video, Component) + DVI
- ◆ Display Interfaces  
VGA / DVI-I  
HDTV-out (supports Max. 1080i HDTV resolution output)
- ◆ Expansion  
1 x PCIe Mini Card Slot
- ◆ Watchdog Timer  
Software Programmable supports 1~255sec. system reset
- ◆ Power Supply  
ATX
- ◆ Power Consumption  
3.3 V @ 0.77 A, 5 V @ 4.23 A, 5 Vsb @ 0.1 A, 12 V @ 2.53 A running 3DMark® 2001 SE 330BD with a 2 GHz AMD Turion™ 64 X2 TL-60 processor, 2 GB of 667 MHz DDR2 SDRAM and a 16x CD-RW/DVD-ROM
- ◆ Temperature  
operation: 0°C ~ 60°C ( 32°F ~ 140°F)
- ◆ Humidity  
operation: 5% ~95% non-condensing
- ◆ Dimensions  
338 mm x 126 mm
- ◆ Weight: GW:1.1 Kg

## Features

1. PICMG1.3 and RoHS compliant
2. Supports Socket S1 AMD Turion™ 64 X2 dual-core mobile technology and mobile AMD® Sempron™ processors
3. Built in AMD® 690G Top-grade Integrated Multi-Media Platform
4. Support DVI-D + VGA, (S-Video, Composite, Component) + DVI-D for Dual Display Configurations
5. Four SATA II connectors with RAID 0, 1 and 0+1 supported
6. Support Dual PCIe GbE
7. Support one PCIe Mini Card Slot for Expansion

## Packing List

1 x PCIE-690S1 single board computer
1 x Mini jumper pack
1 x ATA66/100 flat cable (P/N: 32200-000052-RS)
4 x SATA cable (P/N: 32000062800-RS)
2 x SATA power cable (P/N: 32100-088600-RS)
1 x KB/MS Y-cable (P/N: 32000-000138-RS)
1 x Dual RS-232 cable (P/N:19800-000051-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x VGA D-Sub Cable with Bracket (P/N:19800-000025-RS)
1 x Utility CD
1 x QIG

## Ordering Information

Part No.	Description
PCIE-690S1-R10	PICMG1.3 Full Size CPU Card with AMD® Socket S1 Processors, AMD 690G & SB600 Chipset, TV-out, DVI-I, VGA Multi-display Interfaces, 4 x SATA II with Raid Function, Dual PCIe GbE, PCIe Mini Card Slot
24150-000061-RS	AMD® Turion64 x 2 Mobile Dual Core TL-62, 2.1GHz, 512KB x 2, 800MHz, TDP 31W, Socket S1(638pins), RoHS
24105-000062-RS	Mobile AMD® Sempron Single Core 3700+, 2.0GHz, 512KB, 800MHz HyperTransport, TDP 25W, Socket S1(638pins), RoHS
24105-000045-RS	Mobile AMD Sempron Single-Core 3500+, 1.8GHz; 512KB, 800MHz, TDP 25W, Socket S1(638pins), RoHS
24105-000060-RS	Mobile AMD Sempron Single-Core 2100+, 1GHz; 256KB, 800MHz, TDP 8W, Socket S1(638pins), RoHS
TPM-IN01-R10	Infineon 20-pin Trusted Platform Module with S/W Management Tool
TPM-WI01-R10	Winbond 20-pin Trusted Platform Module with S/W Management Tool
AC-KIT883HD-R10	7.1 Channel HD audio kit with Realtek ALC883 supports dual audio streams
HDTVCABLESET-01	HDTV Cable Set with Composite / S-Video / Component Output
CF-479B-RS	High Performance CPU cooler (50mm x 50mm x 26mm, 50W)
32200-000017-RS	FDD cable
19800-000049-RS	LPT cable