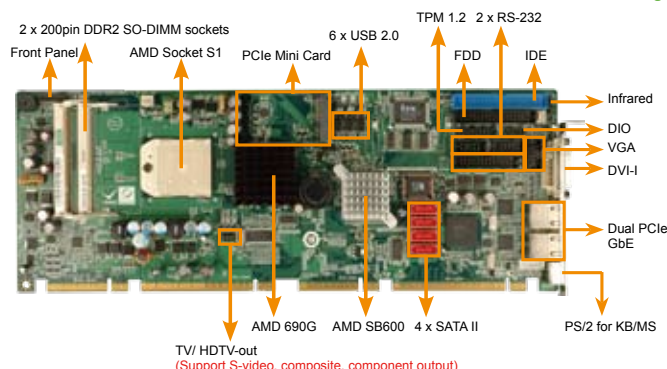


# PCIE-690S1

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 with RAID, PCIe Mini Card Slot and Dual PCIe GbE



## Features

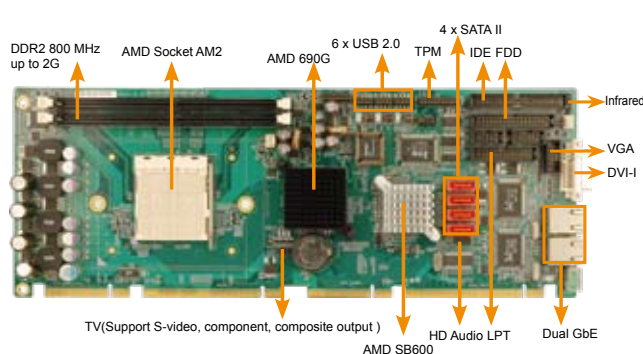
1. PICMG1.3 and RoHS compliant
2. Supports Socket S1 AMD Turion™ 64 X2 dual-core mobile technology and mobile AMD® Sempron™ processors
3. Built in AMD® 690G Top-grade integrated Multi-Media platform
4. Support DVI-D + VGA, (S-Video, Composite, Component) + DVI-D for dual display configurations
5. Four 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

## Specifications

- ◆ CPU
  - Socket S1 AMD® Turion™ 64 X2, Turion™ 64 and Mobile Sempron™ processors (PCIE-690S1)
  - Socket AM2 AMD® Opteron™, Athlon™ 64 X2, Athlon™ 64 and Sempron™ processors (PCIE-690AM2)
- ◆ HyperTransport™ Technology
  - 200 MHz, 400 MHz, 600 MHz or 800 MHz HyperTransport™ interface (PCIE-690S1)
  - 200 MHz, 400 MHz, 600 MHz, 800 MHz or 1000 MHz HyperTransport™ interface (PCIE-690AM2)
- ◆ System Chipset
  - AMD® 690G + SB600
- ◆ BIOS
  - AMI Flash BIOS
- ◆ System Memory
  - Two 200-pin 1 GB (max.) 667 MHz or 533 MHz dual-channel DDR2 SDRAM SO-DIMM supported (system max. 2 GB)(PCIE-690S1)
  - Two 240-pin 1 GB (max.) 800 MHz, 667 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 2 GB) (ECC supported)(PCIE-690AM2)
- ◆ Ethernet
  - Dual Broadcom BCM5787M PCIe GbE controllers (PCIE-690S1)
  - Dual PCI GbE Realtek RTL8110SC Chipsets (PCIE-690AM2)
- ◆ I/O Interface
  - 2 x RS-232 1 x LPT
  - 10 x USB 2.0 (Six on-board and 4 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)
- ◆ Digital I/O
  - 8-bit Digital I/O, 4-bit input / 4-bit output
- ◆ Infrared Interface
  - 1 x Infrared by pin header
- ◆ Audio:
  - 10-pin on-board header connects to the IEI AC-KIT883HD 7.1 channel HD Audio kit
- ◆ Graphic
  - 1. ATI Radeon Express 1250 graphic engine integrated in AMD 690G provides VGA/DVI-I/TV(S-Video, Composite, Component) interfaces
  - 2. AVIVO provides advanced scaling, color correction of video playback processing, H/W 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 or 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 (PCIE-690S1)
- ◆ 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 (PCIE-690S1)
  - 3.3 V @ 0.45 A, 5 V @ 3.94 A, 5 Vsb @ 0.18 A, 12 V @ 7.96 A running 3DMarkR 2001 SE 330 with a 2.8 GHz AMD Opteron processor and 1 GB of 667 MHz DDR2 SDRAM (PCIE-690AM2)
- ◆ 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 (PCIE-690S1), GW:1.2 Kg (PCIE-690AM2)

# PCIE-690AM2

Full-size PICMG 1.3 CPU card supports Socket AM2 AMD® processors with HyperTransport™ Technology and comes with AMD 690G and SB600 chipsets, multi-display interfaces, , four SATA II with RAID and dual PCI GbE LAN



## Features

1. PICMG 1.3 and RoHS compliant
2. ECC DDR2 unbuffered memory support
3. Supports AMD® Athlon™ 64, AMD® Athlon™ 64 X2, AMD® Sempron™ Socket AM2 processors
4. Built in AMD 690G Integrated Multi-Media Platform
5. Support DVI-D + VGA, HDTV (S-Video, Composite, Component) + DVI-D for Dual Display Configurations
6. Four 3.0 Gbps SATA II interfaces with RAID 0, 1, and 0 + 1 functions

## Packing List

|                                                          |         |
|----------------------------------------------------------|---------|
| 1 x PCIE-690S1 or PCIE-690AM2 single board computer      |         |
| 1 x Mini jumper pack                                     |         |
| 1 x ATA66 flat cable (P/N: 32200-000052-RS)              |         |
| 4 x SATA cable (P/N: 32000-062800-RS)                    |         |
| 2 x SATA power cable (P/N: 32100-088600-RS)              |         |
| 1 x KB/MS Y-cable (P/N: 32000-133200-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 CPU retention kit (P/N:19Z00-000065-RS)(PCIE-690AM2) |         |
| 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® 690 G & SB600 chipset, TV-out, DVI-I, VGA multi-display Interfaces, 4 x SATA II with raid function, Dual PCIe GbE, PCIe Mini card slot |
| PCIE-690AM2-R10  | PICMG1.3 full size CPU card with AMD® socket AM2 processor, AMD® 690 G & SB600 chipset, HDTV/TV-out, DVI-I, VGA multi-display Interfaces, 4 x SATA II with raid function, Dual PCI GbE, HD audio        |
| 24105-000061-RS  | AMD® Turion 64 x 2 mobile dual core TL-62, 2.1GHz, 512KB x 2, 800MHz, TDP 31W, Socket S1(638pins), RoHS (PCIE-690S1)                                                                                    |
| 24105-000062-RS  | Mobile AMD® Sempron single core 3700+, 2.0GHz, 512 KB, 800 MHz HyperTransport, TDP 25W, socket S1(638pins), RoHS (PCIE-690S1)                                                                           |
| 24105-000045-RS  | Mobile AMD® Sempron single-core 3500+, 1.8 GHz; 512 KB, 800 MHz, TDP 25W, Socket S1(638pins), RoHS(PCIE-690S1)                                                                                          |
| 24105-000060-RS  | Mobile AMD® Sempron single-core 2100+, 1 GHz; 256 KB, 800 MHz, TDP 8W, Socket S1(638pins), RoHS(PCIE-690S1)                                                                                             |
| 24105-000029-RS  | AMD® Athlon™ 64 X2 Dual-Core 3400+ 1.8GHz; 512KBx2, 1000MHz, TDP 35W, Socket AM2 (940 pins), RoHS(PCIE-690AM2)                                                                                          |
| 24105-000052-RS  | AMD® Athlon™ 64 Single-Core 3000+ 1.8GHz; 512KBx2, 1000MHz, TDP 35W, Socket AM2 (940 pins), RoHS(PCIE-690AM2)                                                                                           |
| 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                                                                                                                                |
| HDTV-CABLESET-01 | HDTV cable set with Composite / S-Video / Component Output                                                                                                                                              |
| CF-479B-RS       | High performance CPU cooler (50mm x 50mm x 26mm, 50W)(PCIE-690S1)                                                                                                                                       |
| CF-519-RS        | High performance CPU cooler (92mm x 92mm x 67mm 115W)(PCIE-690AM2)                                                                                                                                      |
| CF-AM2-RS        | High performance CPU cooler (83mm x 69mm x 30mm 46W)(PCIE-690AM2)                                                                                                                                       |
| 32200-000017-RS  | FDD cable                                                                                                                                                                                               |
| 19800-000049-RS  | LPT cable                                                                                                                                                                                               |