# cPCI-R6700 Series

## 6U CompactPCI® Rear Transition Module with ATI/AMD Radeon™ E4690 GPU



### Features

- ATI/AMD Radeon™ E4690 embedded GPU
- 512MB on-chip GDDR3 VRAM
- Supports dual independent DVI-I displays
- Onboard VBIOS update available
- PICMG 2.16 Packet Switch Backplane R1.0 compliant

CompactPCI®

## Specifications

### Processor & System

| | |
|---|---|
| GPU | ATI/AMD Radeon™ E4690 Graphics Controller |
| | Support DirectX 10.1 and Open GL 3.3 |
| Memory | Integrated in GPU with 128-bit memory interface, 512MB GDDR3 video memory |
| | Up to 600MHz engine clock and 700MHz memory clock |

### Connectivity

| | |
|---|---|
| Graphics | ATI/AMD Radeon™ E4690 Graphics Controller |
| | PCI Express x4 lane interface |
| | Integrated 128-bit 512MB GDDR3 memory |
| | Two DVI-I (digital+analog) ports on front panel, resolution up to 3840x2400 per display output |
| | Auxiliary power connector onboard |
| Ethernet | Two LAN ports routed from CPU board |
| Audio | One Mic-in/Line-in/Line-out 10-pin box hearder on board supported by Realtek ALC262 HD Audio codec |
| USB | Three USB 2.0 ports RTM panel, additional one 5-pin USB 2.0 pin header and one 10-pin box header |
| Serial Port | One RS-232/422/485 DB-9 port on RTM panel |
| | One 10-pin COM box header supports RS-232 TX/RX only |
| PS/2 | One 10-pin Key board mouse box header on board |
| | PS/2 port on panel from 10pin header (cPCI-R6700D only) |

### Storage

| | |
|---|---|
| SATA | Three 7-pin SATA signal connectors |
| | Space reserved for one onboard 2.5" SATA drive (cPCI-R6700D only) |

### Operating System

| | |
|---|---|
| OS | Microsoft Windows® XP, 7, Server 2003, Server 2008 |
| | Red Hat Enterprise Linux 6.0 |

### Mechanical & Environmental

| | |
|---|---|
| Form Factor | 6U 4HP/8HP CompactPCI Rear Transition Module |
| | 233.35mm x 80mm |
| Operating Temperature | Standard Temperature 0ºC to +60ºC |
| Extended Temperature | -20ºC to +70ºC |
| Storage Temperature | -40ºC to +85ºC |
| Power Consumption | 22W at 600MHz clock engine with cPCI-6210 when running 3D Mark06 |
| | Provided with 6-pin power cable for auxiliary power support |

### Compatible CPU board

| | |
|---|---|
| CPU boards | cPCI-6530/cPCI-6520/cPCI-6930/cPCI-6210/cPCI-6510 |

## Ordering Information

| Model Number | Description/Configuration |
|---|---|
| cPCI-R6700 | 1-slot (4HP) cPCI-R6700 with ATI/AMD E4690 graphics processor, 2x GbE, 2x DVI-I, 3x USB, 1x COM on panel; audio, COM, PS/2, 2x USB, 3x SATA, auxiliary connector on board |
| cPCI-R6700D | 2-slot (8HP) cPCI-R6700D with ATI/AMD E4690 graphics processor, 2x GbE, 2x DVI-I, 3x USB, 1x COM, 1x PS/2 on panel; audio, COM, 2x USB, 3xSATA, auxiliary connector on board, reserved space for 2.5" SATA drive |

## I/O Table

| Model | | GbE | USB 2.0 | COM | DVI-I | SATA | Mic-in/ Line-out | KB/MS |
|---|---|---|---|---|---|---|---|---|
| **cPCI-R6700** | **Face-plate** | 2 | 3 | 1 | 2 | - | - | - |
| | **On-board** | - | 2[1] | 1[2] | - | 3 | 1 (10-pin) | 1 (10-pin) |
| **cPCI-R6700D** | **Face-plate** | 2 | 3 | 1 | 2 | - | - | 1 (PS/2 combo) |
| | **On-board** | - | 2[1] | 1[2] | - | 3 | 1 (10-pin) | - |

(1) One 10-pin box and one 5-pin header
(2) 10-pin box header RS-232 TX/RX only

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Note: All specifications are subject to change without further notice.