

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 header 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
PS/2	One 10-pin COM box header supports RS-232 TX/RX only 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)
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Operating System

OS	Microsoft Windows® XP, 7, Server 2003, Server 2008 Red Hat Enterprise Linux 6.0
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Mechanical & Environmental

Form Factor	6U 4HP/8HP CompactPCI Rear Transition Module 233.35mm x 80mm
Operating Temperature	Standard Temperature 0°C to +60°C
Extended Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
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
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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