cPCI-R6500 Series

6U CompactPCI® Rear Transition Module with AMD/NVIDIA MXM Graphics Module

Features

- MXM 3.0 module with AMD Radeon™/NVIDIA GPU, supporting GDDR5
- DirectX 11, OpenGL 4.1 supported
- Supports dual independent DVI displays (DVI-I, DVI-D)
- Reserved space for 2.5" SATA drive
- Rich IO interface supported



cPCI-R6500 cPCI-R6500D cPCI-R6501D

Specifications

Processor & System

MXM

MXM Graphic Module Version 3.0, Type A (70x82mm)

GPU

cPCI-R6500: AMD® Radeon™ E8860 Graphics Controller. Support OpenCL 1.2, DirectX 11.1 and Open GL 4.2, Shader 5.0

Memory

cPCI-R6500: Integrated in E8860 MXM module with 2GB 128-bit GDDR5 memory, 625MHz engine clock and 1125MHz memory clock

Connectivity

Graphics

PCI Express x4 lane interface

One DVI-I, one DVI-D ports on front panel

Ethernet

Two LAN ports on front panel routed from CPU board (PICMG 2.16)

Audio

One 10-pin Mic-in/Line-in on board box header supported by Realtek ALC262 HD Audio codec

USB

One USB 2.0 ports on RTM panel; additional one USB 2.0 for cPCI-R6500D

One 10-pin USB 2.0 box header for USB 2.0 (cPCI-R65001D)

Serial Port

One RS-232/422/485 10-pin box header on board

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-R65000D only)

Storage

SATA

Three 7-pin SATA signal connectors

Space reserved for one onboard 2.5" SATA drive (cPCI-R6501D only)

Operating System

OS

Microsoft Windows® 7, Server 2008

RedHat Enterprise Linux 6.3

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 available upon request)

Storage Temperature

-40°C to +85°C

Power Consumption

Max. load 0.37A @5V, 1.90A @12V, total 24.65W when mate with cPCI-6520 measured by 3D Mark 11

Auxiliary power needed for operation

6-pin power cable provided for auxiliary power

Certification

CE/ FCC

Compatible CPU board

CPU boards

cPCI-6940/cPCI-6530BL/cPCI-6530/cPCI-6520

I/O Table

		GbE	USB 2.0	COM	DVI	SATA	Mic-in	Line-out	PS/2 KB/MS
cPCI-R6500 (4HP)	Faceplate	2	1		2(1)				
	Onboard								
cPCI-R6500D (8HP)	Faceplate	2	2	1(2) (DB-9)	2(1)				1 (PS/2 combo)
	Onboard			1 (10-pin)		3 (7-pin)	1 (10-pin)		
cPCI-R6501D (8HP)	Faceplate	2	1		2(1)				
	Onboard		1 (10-pin)	2 (10-pin)		3(3) (7-pin)	1 (10-pin)		1 (10-pin)

(1) One DVI-I (Digital + Analog), One DVI-D (Digital only)
(2) RS-232/422/485 selectable
(3) Space is reserved onboard for one 2.5" SATA drive

Ordering Information

- **cPCI-R6500/A8860**
  1-slot (4HP) cPCI-R6500 with AMD Radeon E8860 MXM module, 2x GbE, 1x DVI-I, 1x DVI-D, 1x USB and auxiliary power connector
- **cPCI-R6500D**
  2-slot (8HP) cPCI-R6501D with MXM module, 2x GbE, 1x DVI-I, 1x DVI-D, 2x USB, PS/2 combo keyboard/mouse, 1x COM (RS-232/422/485) and auxiliary power connector
- **cPCI-R6501D**
  2-slot (8HP) cPCI-R6500D with MXM module, 2x GbE, 1x DVI-I, 1x DVI-D, 1x USB, reserved space for 2.5" SATA drive, 3x SATA (one used for onboard drive) and auxiliary power connector

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