cPCI-R6500 Series

6U CompactPCI® Rear Transition Module with MXM graphics module

Features

- MXM 3.0 module with AMD Radeon™ E6760 GPU
- 1GB GDDR5 VRAM
- Supports dual independent DVI displays (DVI-I, DVI-D)
- Onboard box header available for expansion
- Max 600MHz Graphics engine and 800MHz Memory Clock

CompactPCI®

Specifications

Processor & System

MXM	MXM Graphic Module Version 3.0, Type A
Processor	AMD Radeon™ E6760 Graphics Controller
	Support OpenCL 1.1, DirectX 11 and Open GL 4.1, Shader 5.0
Memory	Integrated in MXM module with 1GB 128-bit GDDR5 memory interface
	Up to 600MHz engine clock and 800MHz memory clock

Connectivity

Graphics	Powered by AMD Radeon™ E6760 Graphics Controller on MXM module
	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
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
	One 10-pin USB 2.0 box header for USB 2.0 (cPCI-R6500D)
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-R6501D only)

Storage

SATA	Three 7-pin SATA signal connectors
	Space reserved for one onboard 2.5" SATA drive (cPCI-R6500D only)

Operating System

OS	Microsoft Windows® 7, Server 2008
	RedHat Enterprise Linux 6.3

Mechanical & Environmental

Form Factor	6U 8HP CompactPCI Rear Transition Module
	233.35mm x 80mm
Operating Temperature	Standard Temperature 0˚C to 60˚C (Extended temperature is available upon request)
Storage Temperature	-40˚C to 85˚C
Power Consumption	TBD
	Auxiliary power needed for operation
	6-pin power cable provided for auxiliary power

Compatibility CPU board

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

Ordering Information

Model Number	Description/Configuration
cPCI-R65200D	2-slot (8HP) cPCI-R6500D with AMD Radeon E6500 MXM module, 2x GbE, 1x DVI-I, 1x DVI-D, 1x USB, reserved space for 2.5" SATA drive, 3x SATA (on used for onboard drive) and auxiliary power connector on board
cCPI-R6501D	2-slot (8HP) cPCI-R6501D with AMD Radeon E6760 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 on board

I/O Table

Model		GbE	USB 2.0	COM	DVI	SATA	Mic-in	Line-out	PS/2 KB/MS
cPCI-R6500D	Face-plate	2	1	-	2[1]	-	-		-
	On-board	-	1 (10-pin)	2 (10-pin)	-	3[3] (7-pin)	1 (10-pin)		1 (10-pin)
cPCI-R6501D	Face-plate	2	2	1[2] (DB-9)	2[1]	-			1 (PS/2 combo)
	On-board	-	-	1 (10-pin)	-	3 (7-pin)	1 (10-pin)		-

(1) One DVI-I (Digital + Analog), One DVI-D (Digital only) are from AMD E6760 graphics chip on MXM module assembled on RTM with 1GB GDDR5 vRAM and DirectX 11, OpenCL1.1 supported.
(2) RS-232/422/485 selectable.
(3) Space is reserved onboard for one 2.5" SATA drive.