



V Rose Microsystems, Inc.

www.vrosemicrosystems.com

VRM-cPCI-6965

Product Data Sheet

Overview:

The **VRM-cPCI-6965** is a 6U CompactPCI Intel Core 2 Duo Processor Blade with Dual Independent Displays.

Features:

Processor System:

CPU: uFC-PGA Intel Core 2 Duo 2.2GHz(T7500), 4MB L2 cache, FSB 800 MHz, uFC-PGA Intel Celeron M 2.0 GHz(55), 1MB L2 cache, FSB 533MHz

Chipset: Intel GME965 with ICH8M

RAM: Dual Channel DDR2-667 SDRAM with two SO-DIMM sockets, up to 4GB capacity

BIOS: AMI Core 8 16Mbit SPI Flash memory

CompactPCI Bus: 32-bit/33 MHz CompactPCI Bus

PICMG standard: PICMG 2.0 CompactPCI R3.0, PICMG 2.1 Hot-swap R2.0

Connectivity:

PMC: One 32-bit/33MHz PMC site

Ethernet: Two PCI-Express Intel 82573L Gigabit Ethernet controllers, Two egress GbE ports

Graphics: Integrated in GME965, One DVI-D and one DVI-I port on front panel, Analog CRT supports up to 2048 x 1536 resolution @ 75Hz refresh rate.

USB: Four front panel USB2.0 ports, Four rear panel USB2.0 ports

PS/2: One PS/2 KB/MS Combo port

Serial Port: Two front panel DB-9 RS-232/422/485/485+ selectable serial ports:

Printer Port: One front panel printer port

Audio: Mic-in, line-out ports on RTM

Storage:

SBC: One SATA port for 2.5" hard drive direct mounting, One 7-pin signal SATA port for external drive, One compactFlash slot

RTM: One internal and one external 68-pin SCSI connector by LSI53C1020 SCSI Ultra320 single channel controller, Floppy header

Operating System:

OS: Microsoft Windows XP Professional, Vista Enterprise, Fedora 7

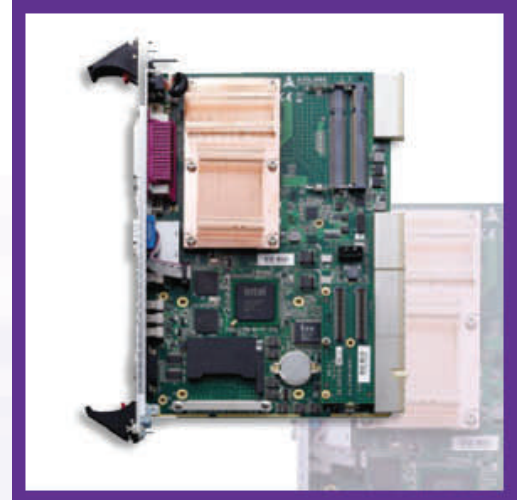
Miscellaneous:

LED: Power, WDT, HDD, General Purpose

Battery: Coin cell Lithium Battery onboard for RTC, CMOS RAM

Hardware Monitor: Integrated in super I/O IT8712F

Watchdog Timer: Two watchdog timers



Mechanical and Environmental:

Form Factor: 6U 4HP/8HP CompactPCI, 100mm x 160mm (L x W)

Operating Temp: 0 to 55C (with forced air flow)

Storage Temp: -40C to 85C

Rel Humidity: 90% @ 60C (non-condensing)

Shock: 15G peak-to-peak, 11ms duration, non-operating

Vibration: 1.88 Grms, 5-500Hz, each axis, operating IEC68-2-64 standard

Power Consumption: Core 2 Duo 2.2 GHz, 1GB SODIMM under Windows XP with 100% CPU loading. (Current: 9.4 A | Power 47W)

Safety and EMI:

Certifications: EN55022 CE, FCC Class A



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I/O Table:

Function	cPCI-6965 (4HP)		cPCI-6965D (8HP)		cPCI-R6000-L/ cPCI-R6000-965(4HP)		cPCI-R6000D-L/ cPCI-R6000-965D(8HP)	
	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard
GbE	Y x2	-	Y x2	-	-	-	-	-
USB 2.0	Y x4	-	Y x4	-	Y x2	-	Y x4	-
DVI-D	Y	-	Y	-	-	-	-	-
DVI-I	Y	-	Y	-	-	-	-	-
VGA	-	-	-	-	Y	-	Y	-
COM	Y	-	Y x2	-	-	-	-	-
SATA	-	Y x2	-	Y x2	-	Y	-	Y
CF	-	Y	-	Y	-	-	-	-
PS/2 KB/MS	-	-	Y	-	-	-	Y	-
Floppy	-	-	-	-	-	Y	-	Y
SCSI	-	-	-	-	Y (cPCI-R6000-965 only)	Y (cPCI-R6000-965 only)	Y (cPCI-R6000-965D only)	Y (cPCI-R6000-965D only)
Parallel	-	-	Y	-	-	-	-	-
Mic-in	-	-	-	-	-	-	Y	-
Line-out	-	-	-	-	-	-	Y	-
LED	Y x4	-	Y x4	-	-	-	-	-
Reset Button	Y	-	Y	-	-	-	-	-

Ordering:

VRM-cPCI-6965/550/M512: 4HP (single slot) 6U CompactPCI® Celeron® 2.0GHz (550) processor blade and 512MB SODIMM

VRM-cPCI-6965/T75/M2G: 4HP 6U CompactPCI® Core™2 Duo 2.2GHz (T7500) processor blade and 2x 1GB SODIMM

VRM-cPCI-6965D/550/M512: 8HP 6U CompactPCI® Celeron® 2.0GHz (550) processor blade and 512MB SODIMM

VRM-cPCI-6965D/550/M1G: 8HP (dual slot) 6U CompactPCI® Celeron® 2.0GHz(550) processor blade and 2x 512MB SODIMM

VRM-cPCI-6965D/T75/M1G: 8HP 6U CompactPCI® Core™2 Duo 2.2GHz (T7500) processor blade and 2x 512MB SODIMM

VRM-cPCI-6965D/T75/M4G: 8HP 6U CompactPCI® Core™2 Duo 2.2GHz (T7500) processor blade and 2x 2GB SODIMM

VRM-cPCI-6965DZ/T75/M2G: 8HP 6U CompactPCI® Core™2 Duo 2.2 GHz (T7500) processor blade and 2x 1GB SODIMM, without J3, J5 cPCI connectors

VRM-cPCI-R6000-965: 4HP Rear Transition Module for cPCI-6965(D) series

VRM-cPCI-R6000-965D: 8HP Rear Transition Module for cPCI-6965(D) series

VRM-DB-CF-SA: CompactFlash socket adapter kit for cPCI-R6000-965D