



V Rose Microsystems, Inc.

www.vrosemicrosystems.com

VRM-cPCI-6880

Product Data Sheet

Overview:

The **VRM-cPCI-6880** is a Low Power 6U CompactPCI 45nm Intel Core 2 Duo Processor Blade.

Features:

Processor & System:

CPU: uFC-PGA Intel Core 2 Duo Processor SV 2.53GHz (T9400) - 6MB L2 FSB 1066 MHz, uFC-PGA Intel Core 2 Duo Processor 2.2 GHz(T7500) 4MB L2 FSB 800 MHz, uFC-PGA Intel Celeron M 2.0 GHz (575) 1MB L2 FSB 667MHz

Chipset: Intel GM45 with ICH9M

RAM: Dual channel DDR2-800 SDRAM up to 8GB

BIOS: AMI Legacy BIOS, 16Mbit SPI Flash memory

CompactPCI Bus: PCI 64bit/66MHz 3.3V or 5.5 universal, Supports operation in system slot and peripheral slot

PICMG Standard: PICMG 2.0—CompactPCI R3.0, PICMG 2.1-Hot Swap R2.0, PICMG 2.9—System Management v1.5, PICMG 2.16-Packet Switching Backplane R1.0

Connectivity:

PMC/XMC: One PCI 64bit/66MHz PMC site

Ethernet: Four PCI-Express Intel 82573L Gigabit Ethernet controllers, Two 10/100/1000Base-T front panel ports, Two 10/100/1000Base-T PICMG 2.16 ports

Graphics: Integrated Intel GM45, powered by the Gen-5.0 graphics architecture, one dvi-I port on front panel (analog CRT signal is also routed to RTM), Analog monitor support up to QXGA

USB: Three usb 2.0 front panel ports, six USB ports are routed to RM

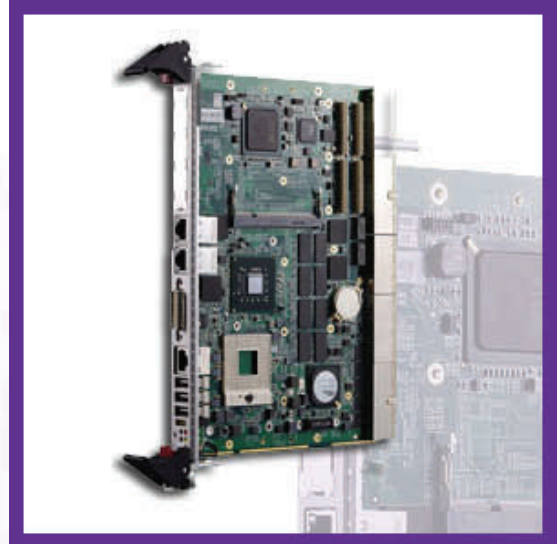
PS/2: PS/2 keyboard mouse port is routed to RTM

Serial Port: Max three 16C550 compatible serial ports from Super IO, One RJ45 port on front panel, two serial ports are routed to RTM

Storage:

SBC: Built in 4GB USB NAND Flash onboard, One removable Serial ATA direct connectors for 2.5" onboard HDD, Optional CompactFlash Socket

RTM: Two onboard 7-pin SATA data connectors for external hard drives, One SATA port for 2.5" onboard SATA HDD (8HP version only), Optional CompactFlash socket onboard(8HP version only), One internal and one external 68-pin SCSI connector by LSI53C1020 SCSI Ultra320 single channel controller, Onboard floppy pin header.



Operating System:

OS: Microsoft Windows XP Professional

Miscellaneous:

LED: Power, WDT, Hot Swap, Hard Disk, CPU overtemperature, IPMI debug

Battery: Coin cell lithium batter onboard for RTC, CMOS RAM for BIOS configuration

Watchdog: System reset and NMI, with programmable interval, 1-255 sec or 1-255 minutes.

Hardware Monitor: CPU temperature, system temperature, vcore/cc voltages

Mechanical & Environmental:

Form Factor: 6U 4HP CompactPCI

Operating Temperature: 0 to 60C

Storage Temperature: -40 to 85 C

Rel. Humidity: 95% at 60C non-condensing

Safety & EMI:

Certifications: CE, FCC



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Function	cPCI-6880		cPCI-R6000 (4HP)		cPCI-R6000P (4HP)		cPCI-R6000D (8HP)	
	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard
GbE	Y x2		Y x2		Y x2 (or 2.16)		Y x2 (or 2.16)	
USB	Y x3		Y x2	Y (5-pin)	Yx2	Y (5-pin)	Yx4	Y (5-pin)
DVI-I	Y		Y					
VGA					Y		Y	
Serial Port	Y (RJ-45)		Y (DB-9)	Y (10-pin)	Y (DB-9)	Y (10-pin)	Y (DB-9)	Y (10-pin)
PS/2 KB/MS							Y	
Compact Flash	Optional ⁽¹⁾							Optional ⁽²⁾
SATA		Y ⁽¹⁾		Y x2 ⁽²⁾		Y x2 ⁽²⁾		Y x3 ⁽²⁾
SCSI			Y	Y			Y	Y
PIM						Y		
Floppy				Y		Y		Y
LED	Y x5		Y x5					
Reset Button	Y		Y					

Ordering:

VRM-cPCI-6880/T94/M1-0: 6U CompactPCI® blade with Core™2 Duo 2.53GHz (T9500) processor and 1GB soldered DDR2 memory

VRM-cPCI-6880/T94/M0-2: 6U CompactPCI® blade with Core™2 Duo 2.53GHz (T9500) processor and 2GB DDR2 SODIMM

VRM-cPCI-6880/T94/M2-2: 6U CompactPCI® blade with Core™2 Duo 2.53GHz (T9500) processor, 2GB soldered and 2GB SODIMM DDR2

VRM-cPCI-6880/T75/M0-2: 6U CompactPCI® blade with Core™2 Duo 2.2GHz (T7500) processor and 2GB SODIMM DDR2 memory

VRM-cPCI-6880/575/M0-1: 6U CompactPCI® blade with Celeron® 2.0GHz (575) processor and 1GB SODIMM DDR2 memory

VRM-cPCI-R6000: 4HP Rear I/O module for cPCI-6880

VRM-cPCI-R6000D: 8HP Rear I/O module for cPCI-6880

VRM-cPCI-R6000P: 4HP Rear I/O module for cPCI-6880 with PIM interface