



# V Rose Microsystems, Inc.

www.vrosemicrosystems.com

**VRM-cPCI-6602**

## Product Data Sheet

### Overview:

The **VRM-cPCI-6602** is a 6U CompactPCI Intel Core 2 Duo Processor SBC with GME965 Chipset

### Features:

#### Processor System:

**CPU:** uFC-PGA Intel Core 2 Duo 2.2GHz(T7500), 4MB L2 cache, FSB 800 MHz

**Chipset:** Intel GME965 Memory Controller Hub, ICH8M

**RAM:** Dual Channel non-ECC DDR2 at 667MHz, two SO-DIMM sockets, maximum up to 4 GB

**BIOS:** Award-Phoenix® BIOS in 4 Mb FWH

**CompactPCI Bus:** PCI 32-bit/33 MHz , 3.3V or 5V universal V (I/O)

**PICMG standard:** PICMG 2.0 CompactPCI R3.0, PICMG 2.1 Hot-swap R2.0, PICMG® 2.9 System Management R1.0 (v1.5), PICMG® 2.16 Packet Switch Backplane R1.0

#### Connectivity:

**PMC/XMC:** One PCI™ 64-bit/66 MHz PMC slot

**Ethernet:** Three PCI-Express® Intel® 82573 single port controllers, Two 10/100/1000BASE-T front panel ports, Two 10/100/1000BASE-T PICMG® 2.16 ports (one is shared with front port)

**Graphics:** cPCI-6602: Integrated in GME965, one analog CRT port with up to 2048x1536 resolution, cPCI-6602G: AMD 3D GPU M72-CSP128 on native PCI-Express® x16 interface - 128 MB GDDR3 memory - Independent display on digital DVI port and analog CRT port

**USB:** Four USB 2.0 ports on front, two on RTM

**PS/2:** One PS/2 KB/MS combo port

**Serial Port:** One front panel DB-9 RS-232 serial port

**Parallel:** One printer port on RTM

**Floppy:** Onboard pin header RTM

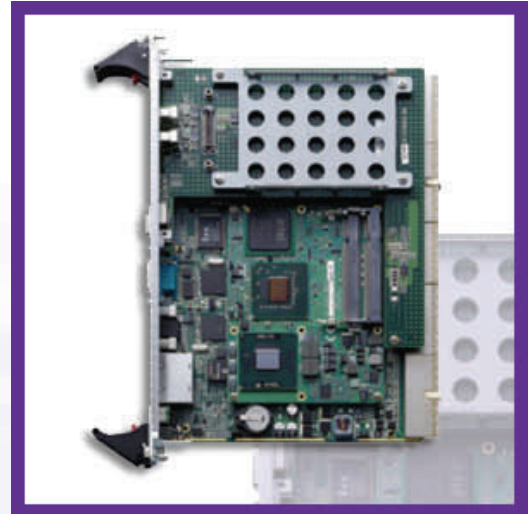
#### Storage:

**SBC:** SATA port for 2.5" HDD direct mounting (cPCI-6602 only), 7-pin SATA signal port for external HDD (cPCI-6602G only), Compact-Flash slot onboard

**RTM:** 2x 7-pin SATA port onboard for external HDDs, Legacy floppy port

#### Operating System:

**OS:** Microsoft Windows XP Professional, Red Hat Linux 9.0



#### 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 stage watchdog timer

#### Mechanical and Environmental:

**Form Factor:** 6U 8HP (dual Slot) CompactPCI, 233mm x 160mm (L x W)

**Operating Temp:** 0 to 60C (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:** .5 Grms, 5-500Hz, each axis, operating IEC68-2-64 standard

**Power Consumption:** TBD

#### Safety and EMI:

**Certifications:** CE, FCC Class A



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### I/O Table:

Function	cPCI-6602		cPCI-6602G		cPCI-R6602	
	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard
GbE port1	Y		Y			
GbE port2	Y		Y		Y (J3), 2.16	
GbE port3					Y (J3), 2.16	
USB 2.0	Y x4		Y x4		Y (J4) x2	
VGA	Y		Y			
DVI-D			Y			
RS-232	Y		Y			
PS/2 KB/MS	Y		Y			
Compact Flash		Y		Y		
SATA150		Y (for 2.5" HDD direct connection)		Y (7-pin)		Y (J3) x2 (7-pin)
PMC	Y		Y			
Floppy						Y (J5)
Printer port					Y (J5)	
SCSI					Y (68-pin)	Y (68-pin)
GP LED	Y x4		Y x4			
Programmable LED	Y x8		Y x8			
Reset Button	Y		Y			

### Ordering:

**VRM-cPCI-6602:** Dual slot 6U cPCI Core™2 Duo host SBC with 2x SODIMM sockets 2x GbE, 4x USB, RS-232, SATA, CF and VGA port (without CPU and memory)

**VRM-cPCI-6602G:** Dual slot 6U cPCI Core™2 Duo host SBC with 2x SODIMM sockets, 2x GbE, 4x USB, RS-232, SATA, CF and DVI and analog VGA port (without CPU and memory)

**VRM-cPCI-6602G/T75/M2G:** Dual slot 6U cPCI with Core™2 Duo 2.2GHz processor and 2x 1GB SODIMM