



# V Rose Microsystems, Inc.

www.vrosemicrosystems.com

**VRM-cPCIS-6400**

## Product Data Sheet

### Overview:

- Standard 6U CompactPCI® and PICMG® 2.5 H.110 CT Bus
- PICMG® 2.1 Hot Swap compliant 32-bit or 64-bit 5-slot CompactPCI® backplane with P3 & P5 rear I/O
- Built-in 400 W AC-input ATX power supply
- Built-in slim type floppy and slim type EIDE CD-ROM (model dependent)
- Dual-removable ATA or SCSI HDD racks
- Guarded power switch and reset button
- Redundant cooling architecture

### Features:

**Enclosure:** EIA RS-310C 19" 4U high rackmount enclosure, Coated metal plate outer covering

**CompactPCI®:** 2.0 R3.0, 2.1 R2.0, 2.5 R1.0

**Form Factor:** 6U cPCI

**Backplane:** cBP-6405R: 5-slot 64-bit 66 MHz 6U cPCI CT Bus Backplane

**Power Supply:** APS940XA: 400 W ATX power supply with cooling fan

**AC Input:** Auto range, 90-130 V AC and 180-260 V AC 47-63 Hz

**DC Output:** 35 A @ +5 V, 25 A @ +3.3 V, 30 A @ +12V

- 1A @ -12 V (+5 Vsb and -5 V are not used in cPCI system)
- The total output current of the 5 V & 3.3 V source must not exceed 45 A
- Maximum total output for all DC: 400 W

Efficiency: 65% at 115 V, full load

**Protection:** Over load protection: 110%-140%

- Over voltage protection on +5 V
- Short circuit protection: each voltage output
- Over temperature protection: 70

**De-rating** De-rating temperature: 40

De-rating rate: 20

**Certifications** UL 1950/ CSA22.2 No.234, TUV EN-60950 "B", IEC-801-2, 3, 4, 5, FCC part 15 Class A, CISPR 22 (EN55022)

**Basic Alarm Module:** Monitors inner chassis temperature and fan status, Abnormal status will generate alarm and LED warning, Alarm reset, LED showing power voltage status on 5 V, 3.3 V, 12 V, and -12 V



**Cooling System:** Front-access hot-swappable fan tray for ventilation:

- 12 V DC brushless, dual ball bearing
- One fan for intake and one fan for ventilation with 51 CFM each
- Rated speed for each fan: 3600 ±250 RPM
- Rated power for each fan: 2.8 W

Rear-access hot-swappable fan modules for drive bays:

- 12 V DC brushless, VAPO bearing
- Three 10.8 CFM fan modules for ventilation
- Rated speed for each fan: 8200 ±1000 RPM
- Rated power for each fan: 1.6 W

**Drive Bay:** Built-in one slim type floppy, one slim type EIDE CD-ROM, Dual removable ATA-100 3.5" HDD racks or 80-pin SCSI HDD racks

**Dimensions:** 482.6 x 177.0 x 350.6 (mm, W x H x D, w/ handle)

**Weight:** 14.5 kg/32 lbs (including power supply and backplane)

**Operating Temp.:** 0° to 55°C (dependent on system configuration)

**Storage Temp.:** -20° to 80°C

**Humidity:** 5% to 95%, non-condensed

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

**Vibration:** Non-operation: 1.88 Grms, 5-500 Hz, each axis, Operation: 0.5 Grms, 5-500 Hz, each axis, tested with 2.5" HDD

**NEBS:** Designed for NEBS Level 3



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### Ordering:

**VRM-cPCIS-6400X/32:** 4U CompactPCI® Sub-system, 5-slot, 32-bit, RIO Con- g with ATX 400 W PSU, CD, FDD & Dual-ATA HD Racks

**VRM-cPCIS-6400X:** 4U CompactPCI® Sub-system, 5-slot, 64-bit, RIO Con- g with ATX 400 W PSU, CD, FDD & Dual-ATA HD Racks

**VRM-cPCIS-6400XS:** 4U CompactPCI® Sub-system, 5-slot, 64-bit, RIO Con- g with ATX 400 W PSU, CD, FDD, Dual-SCSI HD Racks



Rear View

