

cPCIS-6400X Series

4U 5-slot CompactPCI® Chassis with 400 W Power Supply



Features

- 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

Specifications

Enclosure	EIA RS-310C 19" 4U high rackmount enclosure Coated metal plate outer covering
CompactPCI® Standards	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 @ +12 V, 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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 (model dependent)	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

Recommended Configurations

CPU Board (System slot)	Rear I/O Board
cPCIS-6400X/32	
cPCI-6780V, cPCI-6780VS, cPCI-6780S	cPCI-R6780S, cPCI-R6780V
cPCI-6841	
cPCIS-6400X or cPCIS-6400XS	
cPCI-6780V, cPCI-6780VS, cPCI-6780S	cPCI-R6780S, cPCI-R6780V
cPCI-6860A	cPCI-R6860A, cPCI-R6860L
cPCI-6811AA (1)	cPCI-R6820
cPCI-6820AA, cPCI-6820AB (1)	cPCI-R6820
cPCI-6840, cPCI-6840V (1)	cPCI-R6840, cPCI-R6841
cPCI-6910 (2)	cPCI-R6911

Note 1: Does not support FDD.
 Note 2: Recommended Chassis: cPCIS-6400XS

Product Matrix

	IDE	SCSI
32-bit Backplane	cPCIS-6400X/32	
64-bit Backplane	cPCIS-6400X	cPCIS-6400XS

Ordering Information

Modules

Model Number	Description/Configuration
cPCIS-6400X/32	4U CompactPCI® Sub-system, 5-slot, 32-bit, RIO Config with ATX 400 W PSU, CD, FDD & Dual-ATA HD Racks
cPCIS-6400X	4U CompactPCI® Sub-system, 5-slot, 64-bit, RIO Config with ATX 400 W PSU, CD, FDD & Dual-ATA HD Racks
cPCIS-6400XS	4U CompactPCI® Sub-system, 5-slot, 64-bit, RIO Config with ATX 400 W PSU, CD, FDD, Dual-SCSI HD Racks

Note: All models above do not include any system or peripheral board.

Mechanical Layout



Rear View

