

cPCIS-6418U Series

4U 8-slot CompactPCI® System with Redundant Power Supplies

Features

- Standard 6U CompactPCI® and PICMG® 2.5 H.110 CT Bus
- PICMG® 2.1 Hot Swap compliant 64-bit 8-slot CompactPCI® backplane with P3 & P5 rear I/O
- Guarded power switch and reset button
- Dual AC power inlets (optional DC-in)
- LED indication for power status, fan status, temperature alarm
- Embedded chassis management tool to monitor fan, temperature & voltage via RS-232 port



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 CompactPCI®

Backplane

cBP-6418U: 8-slot 64-bit 6U cPCI CT bus backplane
 cBP-6418U/N110: 8-slot 64-bit 6U cPCI non CT bus backplane

Power Supply

Supports up to three in-rack 3U cPCI 8HP power modules
 Supports current sharing on 5 V, 3.3 V, and 12 V
 PICMG® 2.11 47-pin power interface
 Power module: cPS-H325/AC (250 W each x3 redundant)
 cPS-H325/48 (DC48V 250 W redundant each)

Basic Alarm Module

Monitoring inner chassis temperature, fan status
 Abnormal status will generate alarm and LED warning
 Alarm reset
 LEDs indicate status of 5 V, 3.3 V, 12 V and 12 V

Cooling System

Removable left exhaust fan

- Total fans: One
- Fan type: DC brushless motor
- Rated voltage: 12 V
- Dimensions: 120 x 120 x 25 (mm, W x H x D)
- Maximum Air flow: 150 CFM
- Rated speed for each fan: 4000 ±250 RPM
- Rated power for each fan: 17.4 W

Exhaust fan on rear panel:

- Total fans: One
- Fan type: DC brushless motor
- Rated voltage: 12 V
- Dimensions: 92 x 92 x 38 (mm, W x H x D)
- Maximum Air flow: 110.18 CFM
- Rated speed for each fan: 4800 ±250 RPM
- Rated power for each fan: 12 W

Cooling System (cont'd)

Hot-swappable right side intake fans: (2+2 fans)

- Total fans: Four
- Fan type: DC brushless motor
- Rated voltage: 12 V
- Dimensions: 80 x 80 x 15 (mm, W x H x D)
- Maximum Air flow: 42.73 CFM
- Rated speed for each fan: 4000 ±100 RPM
- Rated power for each fan: 3.24 W

Drive Bay

One slim type optical drive
 Dimensions: 482.6 x 177 x 346.35 (mm, W x H x D, w/ handle)
 Weight: 14.5 kg/31.9 lbs (including 250 W redundant power supply and backplane)

Operating Temp.

0°C to 50°C

Storage Temp.

-20°C to 80°C

Humidity

5% to 95%, non-condensing

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

Mechanical Layout



Rear View

Slim Type optical drive



500 W + 250 W Hot-swappable Power Supply

Hot-swappable Fan Tray for intake with filter

Replaceable Fan Tray for exhaust



Dual AC Power Inlets

Recommended Configurations

- **cPCI-6630, 6530V, 6520, 6510V**
cPCI-R6002, cPCI-R6100, cPCI-R6110, cPCI-R6220, cPCI-R6500
- **cPCI-6530, 6510**
cPCI-R6002, cPCI-R6100, cPCI-R6110, cPCI-R6210, cPCI-R6500
- **cPCI-6210**
cPCI-R6002, cPCI-R6100, cPCI-R6110, cPCI-R6500

Ordering Information

| Model Number | cPCI Bus | PSU Type | CMM | PSU MAX | AC/DC | H.110 | CD/DVD ROM | 2.5 HDD Rack | 3.5 HDD Rack | 5.25 HDD Rack | Alarm Board |
|--------------------------|--------------|----------|-----|------------------|-------|-------|-------------|--------------|--------------|---------------|--------------------|
| cPCIS-6418U/AC/SDVD | 64-bit/66MHz | AT | -- | 3x 250W | 2x AC | Y | 1x SATA DVD | -- | -- | -- | Basic Alarm Module |
| cPCIS-6418U/ 2AC/SDVD | 64-bit/66MHz | AT | -- | 2x 250W | 2x AC | Y | 1x SATA DVD | -- | -- | -- | Basic Alarm Module |
| cPCIS-6418U/AC3/VA(EA) | 64-bit/66MHz | AT | -- | 3x 250W | 1x AC | Y | 1x SATA DVD | -- | -- | -- | Buzzer, RS-232 |
| cPCIS-6418U/DC/SDVD | 64-bit/66MHz | AT | -- | 3x 250W (DC 48V) | 2x DC | Y | 1x SATA DVD | -- | -- | -- | Buzzer, RS-232 |
| cPCIS-6418U/AC/N110/SDVD | 64-bit/66MHz | AT | -- | 3x 250W | 2x AC | N | 1x SATA DVD | -- | -- | -- | Buzzer, RS-232 |