

# cPCIS-3100 Series

8U Rackmount Chassis with ATX Redundant Power Supplies :-



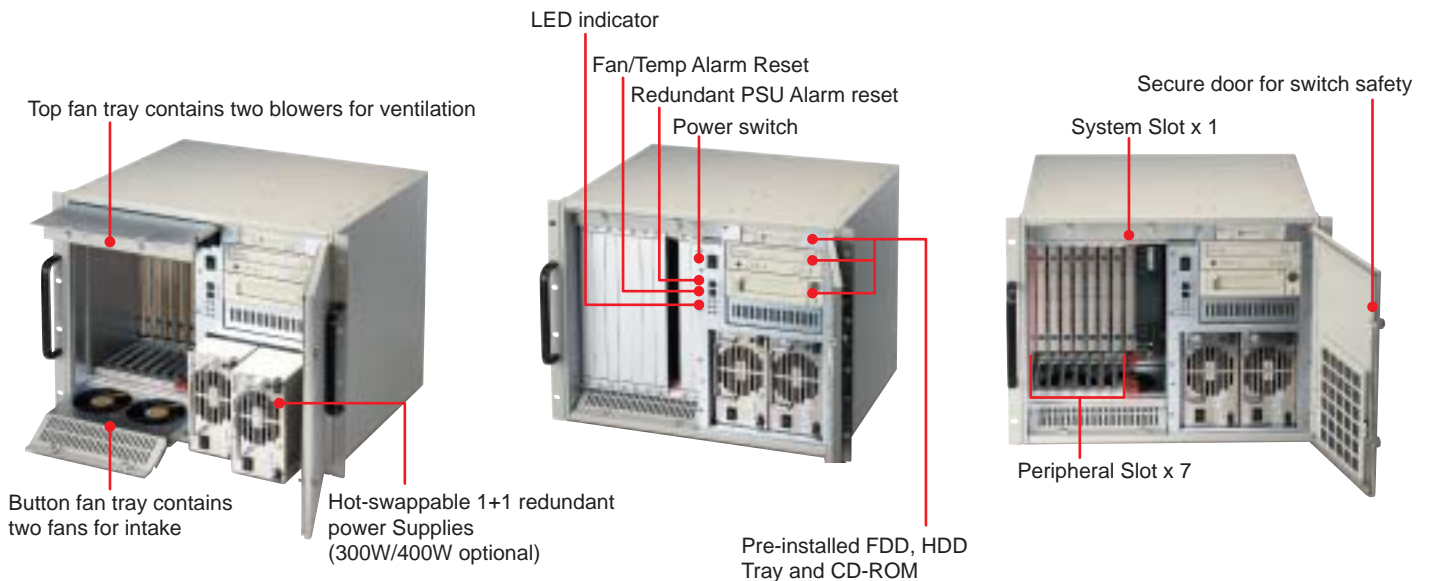
Front View

Rear View



## Features

- Standard 6U CompactPCI and PICMG 2.5 H.110 CT Bus
- PICMG 2.1 Hot Swap compliant 32-bit or 64-bit 8-slot CompactPCI backplane with P3 & P5 rear I/O
- One cPCI segment, right-hand-side system slot
- Built-in AC-input dual redundant power supplies
- One 3.5" and three 5.25" drive bays
- Alarm module for monitoring chassis temperature and fan status
- Switch, drive bays, and redundant power supply are protected by secure door
- Redundant cooling architecture
- Designed for NEBS Level 3 installation



# cPCIS-3100 Series

## 8U Rackmount Chassis with ATX Redundant Power Supplies

### Specifications

|  |   |  |  |       |      |
|--|---|--|--|-------|------|
| Enclosure  | EIA RS-310C 19" 8U high rack-mount enclosure                        |  |  |       |      |
|  | Coated metal plate outer covering                                   |  |  |       |      |
| Form Factor  | 6U CompactPCI   |  |  |       |      |
|  | Switch, drive bays and redundant power supply are protected by door |  |  |       |      |
| CompactPCI Standards                                       | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0, 2.9 R1.0, 2.11 R1.0                   |  |  |       |      |
| Backplane  |   | cBP-6108R  | cBP-6408R                                |       |      |
|  | cPCI Bus  | 32-bit/33MHz   | 64-bit/33MHz                             |       |      |
|  | System Slot   | 1  |  |       |      |
|  | Peripheral Slot   | 7  |  |       |      |
|  | H.110 CT Bus  | Comply with all peripheral slots   |  |       |      |
|  | Rear I/O  | All slots support P3, P4, P5 rear I/O with AB-type shroud                              |  |       |      |
|  | V (I/O)   | 3.3V or 5V(default) selectable   |  |       |      |
|  | Power Input   | ATX connector x 3, DC screw terminals  |  |       |      |
|  | System slot Legacy I/O  | FDD, IDE1 and IDE2   | N / A<br>(pin compatible with cPCI-6841) |       |      |
|  | Alarm Module  | LED indications show power voltage status on 5V, 3.3V, 12V, and -12V, fan, temperature |  |       |      |
| Monitors inner chassis temperature, voltage and fan status |   |  |  |       |      |
| Abnormal status will generate alarm and LED warning        |   |  |  |       |      |
| Alarm reset  |   |  |  |       |      |
| Power Supply   | EPR-2308S: 300W+300W N+1 Redundant Power Supply with cooling fan    |  |  |       |      |
|  | AC Input  | Manual Switch, 115V: 90-132VAC; 230: 180-264VAC  |  |       |      |
|  | Output Voltage  | +5V  | +3.3V                                    | +12V  | -12V |
|  | Max. Load   | 30A  | 15A                                      | 12A   | 0.5A |
|  | Min. Load   | 3A   | 0A                                       | 1A    | 0A   |
|  | Max. Power  | 150W   |  | 144W  | 6W   |
|  | Efficiency  | 65% at 115V, full load   |  |       |      |
|  | Protection  | Over load protection   |  |       |      |
|  |   | Over voltage protection  |  |       |      |
|  |   | Short Circuit Protection   |  |       |      |
|  |   | No Load Operation  |  |       |      |
|  | De-rating   | De-rating Temperature: 50°C  |  |       |      |
|  |   | De-rating Linearly to 50% at 70°C  |  |       |      |
|  | RAM-2806P6: 400W+400W N+1 Redundant Power Supply with cooling fan   | AC Input   | 90V ~ 264V, universal full range         |       |      |
|  |   | Output Voltage   | +5V                                      | +3.3V | +12V |
| Max. Load  |   | 85A  | 50A                                      | 20A   | 1A   |
| Min. Load  |   | 6A   | 0A                                       | 2A    | 0A   |
| Max. Power   |   | 425W   |  | 144W  | 6W   |
| Efficiency   |   | 63% at 115V, full load   |  |       |      |
| Protection   |   | Over load protection   |  |       |      |
|  |   | Over voltage protection  |  |       |      |
|  |   | Short Circuit Protection   |  |       |      |
|  |   | Over Temperature protection  |  |       |      |
| De-rating  |   | De-rating Temperature: 50°C  |  |       |      |
|  |   | De-rating Linearly to 50% at 70°C  |  |       |      |
| *** +5VSB and -5V are not used in cPCI system              |   |  |  |       |      |
| Drive Bay  |   | 3.5"   | 1  |       |      |
|  |   | 5.25"  | 3  |       |      |

|                 |  |  |
|-----------------|--|--|
| Cooling System  | 2 bottom fans for front-access intake                        | Rated speed for each fan: 2700 ± 300 RPM<br>Rated power for each fan: 2.5W |
|                 | 2 top blower for front-access intake                         | Rated speed for each fan: 2500 ± 250 RPM<br>Rated power for each fan: 7.8W |
|                 | 1 fans for rear-access exhaust                               | Rated speed for each fan: 3100 ± 250 RPM<br>Rated power for each fan: 4.8W |
| Physical        | Dimensions   | 482.6 x 354.8 x 365 (mm, W x H x D, w/o handle)                            |
|                 | Weight   | 26.1kg (including 300W redundant power supply and backplane)               |
| Operating Temp. | 0 to 45°C  |  |
| Storage Temp.   | -20 to 80°C  |  |
| Humidity        | 5% to 95%, non-condensed                                     |  |
| Shock           | 15G peak-to-peak, 11ms duration, non-operation               |  |
| Vibration       | Non-operation: 1.88Grms, 5-500Hz, each axis                  |  |
|                 | Operation: 0.5Grms, 5-500Hz, each axis, tested with 2.5" HDD |  |

### Product Matrix

|                  | 300W RPSU         | 400W RPSU         | 300W Dual AC-Inlet RPSU |
|------------------|-------------------|-------------------|-------------------------|
| 32-bit Backplane | cPCIS-3120/300FCR | cPCIS-3120/400FCR | cPCIS-3120/D300FCR      |
| 64-bit Backplane | cPCIS-3140/300FCR | cPCIS-3140/400FCR | cPCIS-3140/D300FCR      |

### Ordering Information

|                    |  |
|--------------------|--|
| cPCIS-3120/300FCR  | 8U 32-bit 8-slot & Rear I/O CTI Chassis with 300W Redundant PSU, FDD, CD-ROM, HDD rack (w/o HDD)                 |
| cPCIS-3120/400FCR  | 8U 32-bit 8-slot & Rear I/O CTI Chassis with 400W Redundant PSU, FDD, CD-ROM, HDD rack (w/o HDD)                 |
| cPCIS-3140/300FCR  | 8U 64-bit 8-slot & Rear I/O CTI Chassis with 300W Redundant PSU, FDD, CD-ROM, HDD rack (w/o HDD)                 |
| cPCIS-3140/400FCR  | 8U 64-bit 8-slot & Rear I/O CTI Chassis with 400W Redundant PSU, FDD, CD-ROM, HDD rack (w/o HDD)                 |
| cPCIS-3120/D300FCR | 8U 32-bit 8-slot & Rear I/O CTI Chassis with 300W Redundant PSU, FDD, CD-ROM, HDD rack (w/o HDD) , dual AC-Inlet |
| cPCIS-3140/D300FCR | 8U 64-bit 8-slot & Rear I/O CTI Chassis with 300W Redundant PSU, FDD, CD-ROM, HDD rack (w/o HDD) , dual AC-Inlet |

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

### Recommended Configurations

| CPU Board (System slot)              | Rear I/O Board           |
|--------------------------------------|--------------------------|
| <b>cPCIS-3120 Series</b>             |                          |
| cPCI-6780V, cPCI-6780VS, cPCI-6780S  | cPCI-R6780S, cPCI-R6780V |
| cPCI-6841                            |                          |
| <b>cPCIS-3140 Series</b>             |                          |
| cPCI-6780V, cPCI-6780VS, cPCI-6780S  | cPCI-R6780S, cPCI-R6780V |
| cPCI-6860A                           |                          |
| cPCI-6860A, cPCI-R6860A, cPCI-R6860L |                          |
| cPCI-6811AA (Note)                   | cPCI-R6820               |
| cPCI-6820AA, cPCI-6820AB (Note)      | cPCI-R6820               |
| cPCI-6840, cPCI-6840V (Note)         | cPCI-R6840, cPCI-R6841   |
| cPCI-6841                            |                          |

Note: Do not support FDD.