

Selection Guide

6U CompactPCI® Platforms



| Model Name | | cPCIS-3300BLS |
|-------------------|------------------------|---------------|
| Form Factor | 19" Rackmount | Y |
| | Wallmount | -- |
| | Height | 9U |
| | Board Orientation (*) | V |
| Backplane | Total Slots | 14 |
| | Total Segments | 1 |
| | System Slots | 12 |
| | Peripheral Slots | -- |
| | Fabric Slots | 2 |
| | 32-bit/64-bit PCI™ Bus | N/A |
| | CMM Slot | Y |
| | Additional Features | 2.16 |
| | Power Supply | Redundant PSU |
| Non-redundant PSU | | -- |
| Alarm | Fan Status | Y |
| | Over Temp. | Y |
| Other | 2.5" Drive Bays | -- |
| | 3.5" Drive Bays | -- |
| | 5.25" Drive Bays | -- |
| | other Drive Bays | -- |
| | Rear I/O | Y |
| Page Number | | 3-3 |

| Model Name | | cPCIS-3330 |
|-------------------|------------------------|----------------------|
| Form Factor | 19" Rackmount | Y |
| | Wallmount | -- |
| | Height | 9U |
| | Board Orientation (*) | V |
| Backplane | Total Slots | 8 |
| | Total Segments | 1 |
| | System Slots | 1 |
| | Peripheral Slots | 7 |
| | Fabric Slots | -- |
| | 32-bit/64-bit PCI™ Bus | 32/64 |
| | CMM Slot | -- |
| | Additional Features | H.110 |
| | Power Supply | Redundant PSU |
| Non-redundant PSU | | -- |
| Alarm | Fan Status | Y |
| | Over Temp. | Y |
| Other | 2.5" Drive Bays | -- |
| | 3.5" Drive Bays | 1 |
| | 5.25" Drive Bays | 2 |
| | other Drive Bays | 1 slim optical drive |
| | Rear I/O | Y |
| Page Number | | 3-5 |



| Model Name | | cPCIS-6418U |
|-------------------|------------------------|----------------------|
| Form Factor | 19" Rackmount | Y |
| | Wallmount | -- |
| | Height | 4U |
| | Board Orientation (*) | H |
| Backplane | Total Slots | 8 |
| | Total Segments | 1 |
| | System Slots | 1 |
| | Peripheral Slots | 7 |
| | Fabric Slots | -- |
| | 32-bit/64-bit PCI™ Bus | 64 |
| | CMM Slot | -- |
| | Additional Features | H.110 |
| | Power Supply | Redundant PSU |
| Non-redundant PSU | | -- |
| Alarm | Fan Status | Y |
| | Over Temp. | Y |
| Other | 2.5" Drive Bays | 1 |
| | 3.5" Drive Bays | -- |
| | 5.25" Drive Bays | -- |
| | other Drive Bays | 1 slim optical drive |
| | Rear I/O | Y |
| Page Number | | 3-13 |

| Model Name | | cPCIS-6230R/6240R |
|-------------------|------------------------|----------------------|
| Form Factor | 19" Rackmount | Y |
| | Wallmount | -- |
| | Height | 2U |
| | Board Orientation (*) | H |
| Backplane | Total Slots | 3/4 |
| | Total Segments | 1 |
| | System Slots | 1 |
| | Peripheral Slots | 2/3 |
| | Fabric Slots | -- |
| | 32-bit/64-bit PCI™ Bus | 32/64 |
| | CMM Slot | -- |
| | Additional Features | H.110 / Non-H.110 |
| | Power Supply | Redundant PSU |
| Non-redundant PSU | | 300 W |
| Alarm | Fan Status | -- |
| | Over Temp. | -- |
| Other | 2.5" Drive Bays | 1 |
| | 3.5" Drive Bays | 1 |
| | 5.25" Drive Bays | -- |
| | other Drive Bays | 1 slim optical drive |
| | Rear I/O | Y |
| Page Number | | 3-15 |

Note: V=vertical, H=horizontal



cPCIS-3320

| |
|--------------------------|
| Y |
| -- |
| 9U |
| V |
| 13 |
| 2 |
| 2 |
| 11 |
| -- |
| 64 |
| Y |
| H.110 |
| cPCI 3+1 (750 W + 250 W) |
| -- |
| Y |
| Y |
| -- |
| -- |
| 2 |
| -- |
| Y |
| 3-7 |



cPCIS-6400U

| |
|---------------|
| Y |
| -- |
| 4U |
| H |
| 5 |
| 1 |
| 1 |
| 4 |
| -- |
| 32/64 |
| -- |
| H.110 |
| cPCI 250 W x3 |
| -- |
| Y |
| Y |
| -- |
| 2 |
| -- |
| Y |
| 3-9 |



cPCIS-6400X

| |
|-------|
| Y |
| -- |
| 4U |
| H |
| 5 |
| 1 |
| 1 |
| 4 |
| -- |
| 32/64 |
| -- |
| H.110 |
| -- |
| 400 W |
| Y |
| Y |
| -- |
| 2 |
| -- |
| Y |
| 3-11 |



cPCIS-6235R, cPCIS-6235R/64

| |
|-----------|
| Y |
| -- |
| 2U |
| H |
| 3 |
| 1 |
| 1 |
| 2 |
| 0 |
| 32/64 |
| N |
| -- |
| ATX 300 W |
| -- |
| Y |
| Y |
| 1 |
| -- |
| -- |
| -- |
| Y |
| 3-17 |



cPCIS-6130R

| |
|-------|
| Y |
| -- |
| 1U |
| H |
| 2 |
| 1 |
| 1 |
| 1 |
| -- |
| 64 |
| -- |
| -- |
| -- |
| 200 W |
| -- |
| -- |
| -- |
| -- |
| Y |
| 3-18 |



Features

- PICMG® 2.16 Packet Switching Backplane architecture
- Dual PICMG® 2.16 fabric slots for high availability
- 21 slots, including 12 node slots, two fabric slots, three redundant 6U CompactPCI® power modules and one CMM slot
- Hot swappable 800 W + 400 W redundant CompactPCI® power supply with universal AC input
- PICMG® 2.9 compliant backplane with FAL#, DEG# sense and INH# control for each power module
- Optional Chassis Monitoring Module (CMM) for remote monitoring and control via Ethernet
- Redundant cooling architecture
- Magnetic circuit breaker protection for AC input

Specifications

| | | | |
|-----------------------|--|--|-----------|
| Enclosure | EIA RS-310C 19" 9U high rackmount enclosure Coated metal plate outer covering Guarded power switch and reset button | | |
| Form Factor | 6U CompactPCI® | | |
| CompactPCI® Standards | 2.0 R3.0, 2.1 R2.0, 2.9 R1.0, 2.11 R1.0, 2.16 R1.0 | | |
| Backplane | cBP-6614A | | |
| | cPCI Bus | None | |
| | System Slot | 12 (all node slots act as system slot) | |
| | 2.16 Node Slot | 12 (all node slots act as system slot) | |
| | 2.16 Fabric Slot | Two | |
| | CMM slot | One | |
| | Rear I/O | All slots support P3, P4, P5 rear I/O with AB-type shroud | |
| | V (I/O) | 3.3 V or 5 V (default) selectable | |
| | Power Input | AC Input, one ATX connector, DC screw terminals | |
| Power Supply | Supports current sharing on 5 V, 3.3 V, and 12 V PICMG® 2.11 47-pin power interface Power module: cPS-H640/AC x 3 (400 W x3 redundant) | | |
| | | Max. Load | Min. Load |
| | +5 V | 150.0 A | 6 A |
| | +3.3 V | 120.0 A | N/A |
| | +12 V | 45.0 A | N/A |
| | -12 V | 15.0 A | N/A |
| Alarm Module | Basic Alarm Module | Monitors inner chassis temperature, voltage and fan status | |
| | | Abnormal status will generate alarm and LED warning | |
| | | Alarm reset | |

| | | |
|-----------------|--|---|
| Drive Bay | None | |
| Cooling System | Five fans for front-access intake | Rated speed for each fan: 4000 ±500 RPM Rated power for each fan: 2.64 W Maximum Air Flow: 48.2 CFM |
| | Five fans for front-access ventilation | Rated speed for each fan: 4000 ±500 RPM Rated power for each fan: 2.64 W Maximum Air Flow: 48.2 CFM |
| Physical | Dimensions | 483.2 x 399 x 339.1 (mm, W x H x D, w/ handle) |
| | Weight | 23 kg/50.7 lbs (including redundant power supply and backplane only) |
| Operating Temp. | 0°C to 55°C (dependent on system configurations) | |
| Storage Temp. | -20°C 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 | Rear I/O Board |
|-----------------------|-----------------------------------|
| cPCI-6860A | cPCI-R6860A, cPCI-R6860L |
| cPCI-6840, cPCI-6840V | cPCI-R6840, cPCI-R6841 |
| cPCI-6910 | cPCI-R6910 |
| cPCI-6920 | cPCI-R6920 |
| Fabric Switch Board | |
| CPC6600-11604 | 24-port GB Switch TX use (no RTM) |

| Fabric Switch Rear I/O Board | |
|------------------------------|-------------------------|
| RTM6600-11641 | 5-port 10/100/1000 RTM |
| RTM6600-11642 | 24-port 10/100/1000 RTM |

Ordering Information

Modules

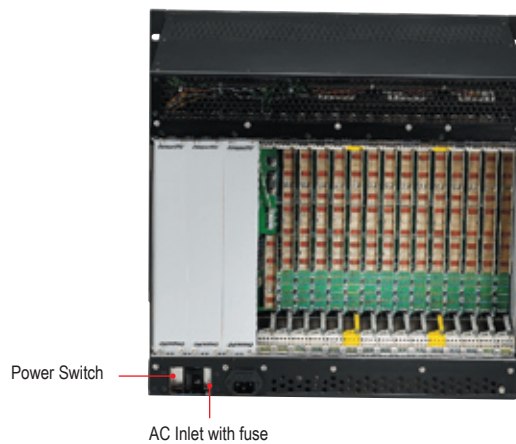
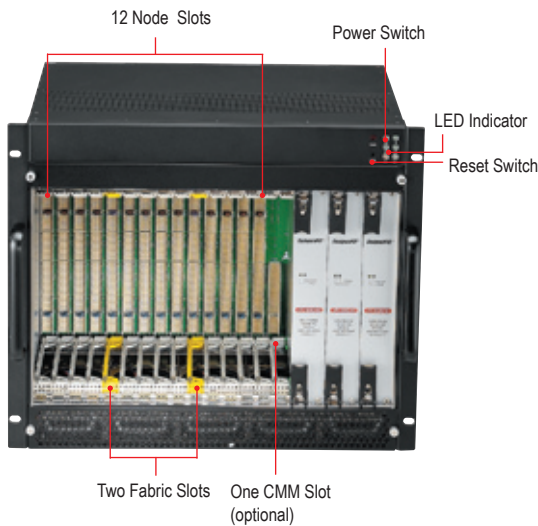
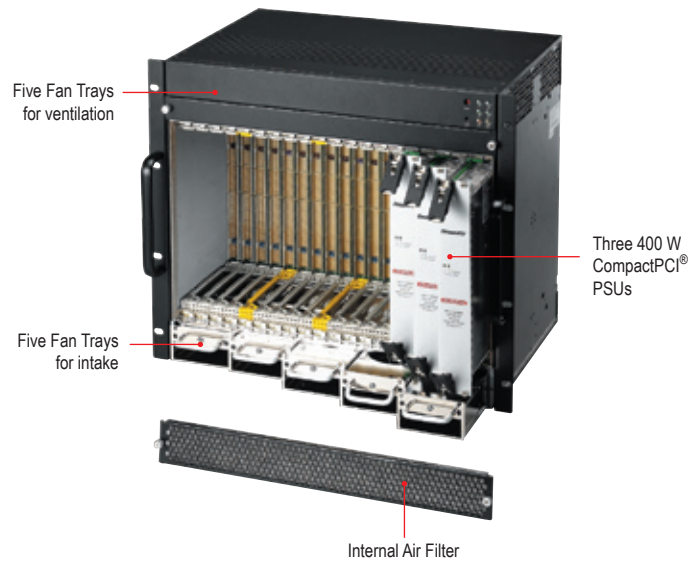
| Model Number | Description/Configuration |
|-------------------------|---|
| cPCIS-3300BLS/AC | 9U cPCI Blade Server Subsystem with basic alarm board, pre-installed 400 W Universal AC input PSU x 3 |

Note: All models above do not include any node or fabric boards.

Mechanical Layout



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
- 3+1 hot swappable 750 W + 250 W redundant power supplies with universal AC input
- Redundant cooling architecture
- Magnetic circuit breaker protection for AC input

Specifications

| | | | | |
|-----------------------|--|---|---------------|--|
| Enclosure | EIA RS-310C 19" 9U high rackmount enclosure Coated metal plate outer covering Guarded power switch and reset button | | | |
| Form Factor | 6U CompactPCI® | | | |
| 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/33 MHz | 64-bit/33 MHz | |
| | System Slot | One | | |
| | Peripheral Slot | Seven | | |
| | 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) | 3.3 V or 5 V (default) selectable | | |
| | Power Input | ATX connector x 3, DC screw terminals | | |
| | System Slot Legacy I/O | FDD, IDE1 and IDE2 | N/A | |
| | | (pin compatible with cPCI-6841) | | |
| Power Supply | Supports current sharing on 5 V, 3.3 V and 12 V PICMG® 2.11 47-pin power interface Power module: cPS-H325/AC x4 or cPS-H325/DC4 x4 (750 W+250 W redundant) | | | |
| | | Max. Load | Min. Load | |
| | +5 V | 132.0 A | 6.0 A | |
| | +3.3 V | 132.0 A | N/A | |
| | +12 V | 22.0 A | N/A | |
| | -12 V | 4.0 A | N/A | |

| | | |
|--------------------|---|---|
| Alarm Module: | LEDs indicate status of 5 V, 3.3 V, 12 V, and -12 V, fan, temperature | |
| Basic Alarm Module | Abnormal status will generate alarm and LED warning | |
| | Alarm reset | |
| Drive Bay | Two 5.25", one 3.5", one slim-type optical drive bays | |
| Cooling System | Five fans for front-access intake | Rated speed for each fan: 4000 ±500 RPM Rated power for each fan: 2.64 W Maximum Air Flow: 48.2 CFM |
| | Five fans for front-access ventilation | Rated speed for each fan: 4000 ±500 RPM Rated power for each fan: 2.64 W Maximum Air Flow: 48.2 CFM |
| | Two fans for rear-access ventilation | Rated speed for each fan: 2800 ±250 RPM Rated power for each fan: 2.9 W Maximum Air Flow: 49 CFM |
| Physical | Dimensions | 483.2 x 399 x 339.1 (mm, W x H x D, w/ handle) |
| | Weight | 24.5 kg/53.9 lbs (including redundant power supply and backplane only) |
| Operating Temp. | 0°C to 55°C (dependent on system configuration) | |
| Storage Temp. | -20°C 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 | Rear I/O Board |
|--------------------------------|--------------------------|
| cPCIS-3330/AC or cPCIS-3330/DC | |
| cPCI-6841 | |
| cPCIS-3330/64/AC | |
| cPCI-6860A | cPCI-R6860A, cPCI-R6860L |
| cPCI-6840, cPCI-6840V * | cPCI-R6840, cPCI-R6841 |
| cPCI-6841 | |
| cPCI-6910 * | cPCI-R6911 |
| cPCI-6920* | cPCI-R6920 |
| cPCI-6880 | cPCI-R6000 |

Note: *Does not support FDD.

Product Matrix

| | 250 W AC x4 | 250 W DC48V x4 |
|------------------|------------------|----------------|
| 32-bit Backplane | cPCIS-3330/AC | cPCIS-3330/DC4 |
| 64-bit Backplane | cPCIS-3330/64/AC | |

Ordering Information

Modules

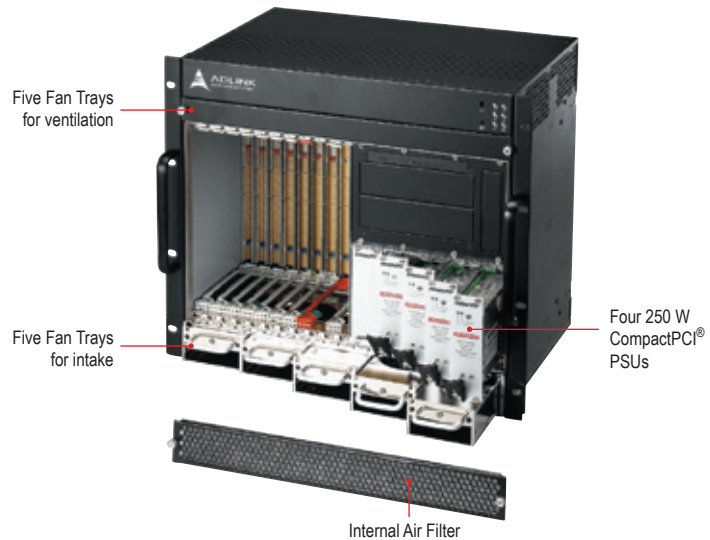
| Model Number | Description/Configuration |
|------------------|--|
| cPCIS-3330/AC | 9U 32-bit 8-slot CT Sub-system (Black) with basic alarm board, backplanes & 250 W Universal AC input PSU x 4 |
| cPCIS-3330/DC4 | 9U 32-bit 8-slot CT Sub-system (Black) with basic alarm board, backplanes & DC48V input PSU x 4 |
| cPCIS-3330/64/AC | 9U 64-bit 8-slot CT Sub-system (Black) with basic alarm board, backplanes & 250 W Universal AC input PSU x 4 |

Note: All models above do not include any boards.

Mechanical Layout



Rear View

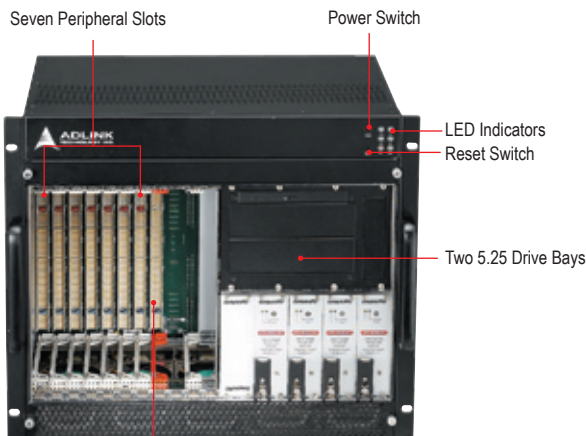


Five Fan Trays for ventilation

Five Fan Trays for intake

Four 250 W CompactPCI® PSUs

Internal Air Filter



Seven Peripheral Slots

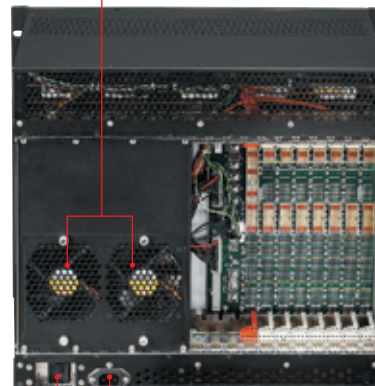
Power Switch

LED Indicators
Reset Switch

Two 5.25 Drive Bays

System Slot

Rear-access Fan for power back and drive bays



AC Inlet

Power Switch

cPCIS-3320 Series

9U Dual System CompactPCI® Chassis with Redundant Power Supplies



Features

- Standard 6U CompactPCI® and PICMG® 2.5 H.110 CT Bus for all peripheral slots
- PICMG® 2.1 Hot Swap compliant 64-bit CompactPCI® backplane with P3 & P5 rear I/O
- Dual cPCI segments (System A: 1 + 7 slots, System B: 1 + 4 slots)
- 3+1 (750 W + 250 W) hot swappable redundant power supplies with universal AC input
- Redundant cooling architecture
- Magnetic circuit breaker protection for AC input

Specifications

| | |
|-------------|--|
| Enclosure | EIA RS-310C 19 9U high rackmount enclosure Coated metal plate outer covering Guarded power switch and reset button |
| Form Factor | 6U CompactPCI® |
| CompactPCI® | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0, 2.7 R1.0, 2.9 R1.0, 2.11 R1.0 |
| Standards | |
| Backplane | |

| | System A | System B |
|-----------------|---|---------------|
| cPCI Bus | 64-bit/33 MHz | 64-bit/66 MHz |
| System Slot | One | One |
| Peripheral Slot | Seven | Four |
| 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) | 3.3 V or 5 V (default) selectable | |
| CMM slot | One | |
| Power Input | ATX connector x2, DC screw terminals | |

| | | |
|--------------|---|-----------|
| Power Supply | Supports current sharing on 5 V, 3.3 V and 12 V PICMG® 2.11 47-pin power interface Power module: cPS-H325/AC x4 | |
| | Max. Load* | Min. Load |
| +5 V | 132.0 A | 6.0 A |
| +3.3 V | 132.0 A | N/A |
| +12 V | 22.0 A | N/A |
| -12 V | 4.0 A | N/A |

* Max. load is the continuous operating load of each rail individually. The Max. load of each rail cannot be drawn from all outputs simultaneously.

| | | |
|-----------------|--|--|
| Alarm Module | Basic Alarm Module | Monitors inner chassis temperature, voltage and fan status Abnormal status will generate alarm and LED warning Alarm reset |
| Drive Bay | Two 5.25 drive bays | |
| Cooling System | Two top blowers for ventilation | Rated speed for each fan: 3150 RPM Rated power for each fan: 6.12 W Maximum Air Flow: 21.02 CFM (Call for Availability) |
| | One top fan for ventilation | Rated speed for each fan: 4000 ±500 RPM Rated power for each fan: 2.64 W Maximum Air Flow: 48.2 CFM |
| | Five fans for front-access intake | Rated speed for each fan: 4000 ±500 RPM Rated power for each fan: 2.64 W Maximum Air Flow: 48.2 CFM |
| Physical | Dimensions | 483.2 x 399 x 339.1 (mm, W x H x D, w/ handle) |
| | Weight | 24.5 kg/53.9 lbs (including redundant power supply and backplane only) |
| Operating Temp. | 0°C to 55°C (dependent on system configurations) | |
| Storage Temp. | -20°C 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 | |

Recommended Configurations

| CPU Board (System slot) | Rear I/O Board |
|-------------------------|--------------------------|
| cPCI-6860A | cPCI-R6860A, cPCI-R6860L |
| cPCI-6840, cPCI-6840V | cPCI-R6840, cPCI-R6841 |
| cPCI-6841 | |
| cPCI-6910 | cPCI-R6911 |
| cPCI-6920 | cPCI-R6920 |

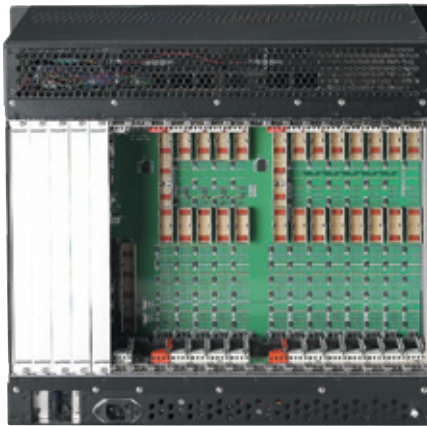
Ordering Information

Modules

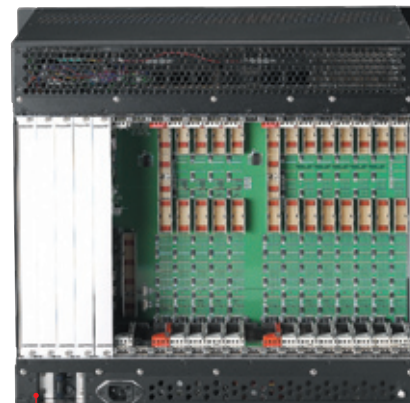
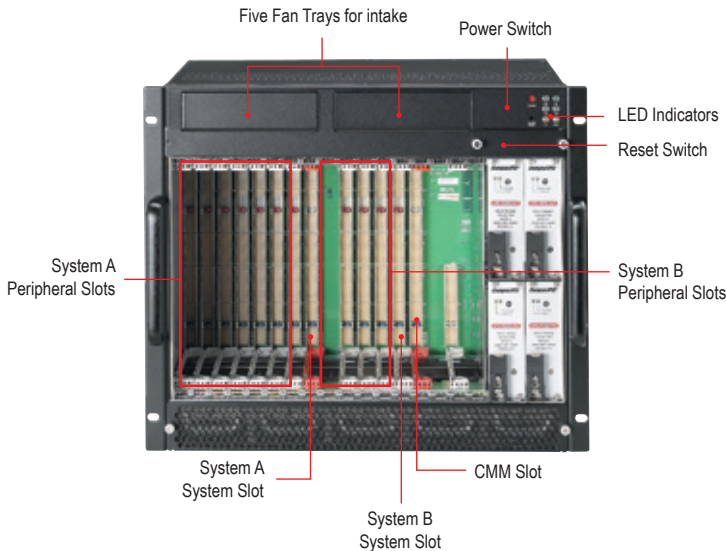
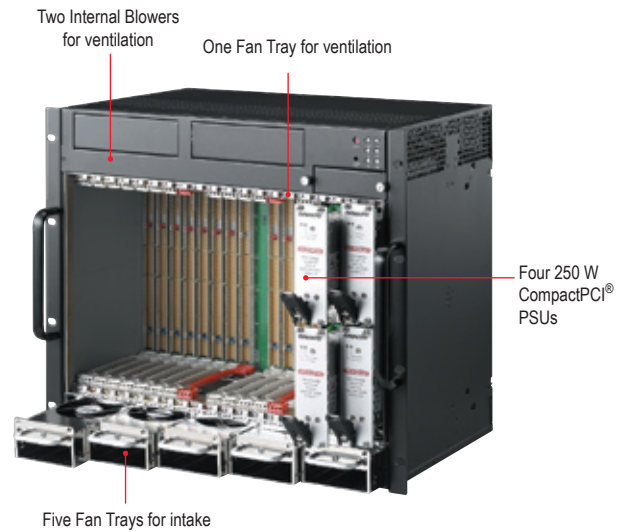
| Model Number | Description/Configuration |
|----------------------|--|
| cPCIS-3320/AC | 9U CompactPCI® Dual System with 64-bit, H.100 bus, P3/P5 rear I/O, 5.25" drive bay x2, CMM slot x1, cPS-H325/AC x4 |

Note: All models above do not include any boards.

Mechanical Layout



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 5-slot CompactPCI® backplane with P3 & P5 rear I/O
- PICMG® 2.11 Standard CompactPCI® 47-Pin Power Interface
- 2 + 1 hot swappable 500 W + 250 W redundant power supplies with universal AC input
- Built-in slim type IDE optical drive
- Dual removable ATA, SATA 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 CompactPCI® |
| Backplane | cBP-6415U: 5-slot 64-bit 6U CT Bus Backplane cBP-6105R: 5-slot 32-bit 6U CT Bus Backplane |
| Power Supply | Supports up to 3 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 (250W each x3 redundant) |
| Basic Alarm Module | Monitors inner chassis temperature and fan status Abnormal status will generate alarm and LED warning Alarm reset LED indicates status of 5 V, 3.3 V, 12 V, and -12 V |
| Cooling System | Front-access hot-swappable fan tray for intake: <ul style="list-style-type: none"> • 12 V DC brush-less, precise dual-ball bearing • One 150 CFM fan for in-take • Rated speed for each fan: 4000 ±250 RPM • Rated power for each fan: 17.4 W Removable fan module for ventilation: <ul style="list-style-type: none"> • 12 V DC brush-less, VAPO bearing • Four 9.46 CFM fans for ventilation • Rated speed for each fan: 8000 ±1000 RPM • Rated power for each fan: 1.8 W |

| | |
|-----------------------------|---|
| Cooling System (cont'd) | Rear-access hot-swappable fan modules for drive bays: <ul style="list-style-type: none"> • 12 V DC brush-less, VAPO bearing • Two 10.8 CFM fan modules for ventilation • Rated speed for each fan: 8200 ±1000 RPM • Rated power for each fan: 1.6 W Rear-access hot-swappable fan modules for ventilation: <ul style="list-style-type: none"> • 12 V DC brush-less, VAPO bearing • One 110 CFM fan for ventilation • Rated speed for each fan: 4800 ±250 RPM • Rated power for each fan: 12 W |
| Drive Bay (model dependent) | Built-in one slim type IDE optical drive Dual removable ATA-100 3.5" HDD racks or 80-pin SCAll SCSI HDD racks or SATA HDD rack |
| Dimensions | 482.6 x 177.0 x 350.6 (mm, W x H x D, w/ handle) |
| Weight | 14.5 kg/32 lbs (including 280 W ATX power supply and backplane) |
| Operating Temp. | 0°C to 55°C (dependent on system configuration) |
| Storage Temp. | -20°C 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-6400U/32/AC | |
| cPCI-6841 | |
| cPCIS-6400U/AC or cPCIS-6400US/AC or cPCIS-6400UA/AC | |
| cPCI-6860A | cPCI-R6860A, cPCI-R6860L |
| cPCI-6840, cPCI-6840V (1) | cPCI-R6840, cPCI-R6841 |
| cPCI-6841 | |
| cPCI-6910 (2) | cPCI-R6911 |
| cPCI-6920 (1) | cPCI-R6920 |
| cPCI-6880 | cPCI-R6880(D) |

Note 1: Does not support FDD.
 Note 2: Recommended Chassis: cPCIS-6400US/AC

Product Matrix

| | IDE | SCSI | SATA |
|-------------------------|-------------------|-----------------|-----------------|
| 32-bit Backplane | cPCIS-6400U/32/AC | | cPCIS-3330/DC4 |
| 64-bit Backplane | cPCIS-6400U/AC | cPCIS-6400US/AC | cPCIS-6400UA/AC |

Ordering Information

Modules

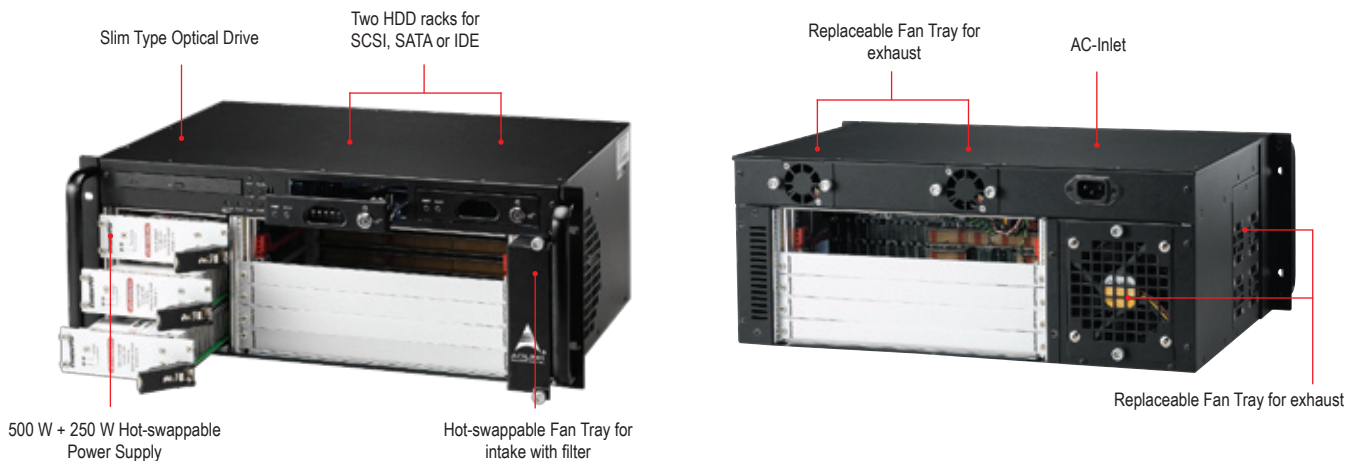
| Model Number | Description/Configuration |
|--------------------------|--|
| cPCIS-6400U/32/AC | 4U CompactPCI® Sub-system, 5-slot 32-bit with three cPS-H325/AC PSU, CD, Dual-ATA HD Racks |
| cPCIS-6400U/AC | 4U CompactPCI® Sub-system, 5-slot 64-bit with three cPS-H325/AC PSU, CD, Dual-ATA HD Racks |
| cPCIS-6400US/AC | 4U CompactPCI® Sub-system, 5-slot 64-bit with three cPS-H325/AC PSU, CD, Dual-SCSI HD Racks |
| cPCIS-6400UA/AC | 4U CompactPCI® Sub-system, 5-slot 64-bit with three cPS-H325/AC PSU, CD, SATA Hot-swap Racks |

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

Mechanical Layout



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 5-slot CompactPCI® backplane with P3 & P5 rear I/O
- Built-in 400 W AC-input ATX power supply
- Built-in slim type IDE optical drive (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 CompactPCI® |
| 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 LEDs indicate status of 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 slim type IDE optical drive 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°C to 55°C (dependent on system configuration) |
| Storage Temp. | -20°C 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-6841 | |
| cPCIS-6400X or cPCIS-6400XS | |
| cPCI-6860A | cPCI-R6860A, cPCI-R6860L |
| cPCI-6840, cPCI-6840V (1) | cPCI-R6840, cPCI-R6841 |
| cPCI-6910 (2) | cPCI-R6911 |
| cPCI-6880 | cPCI-R6000(D) |

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

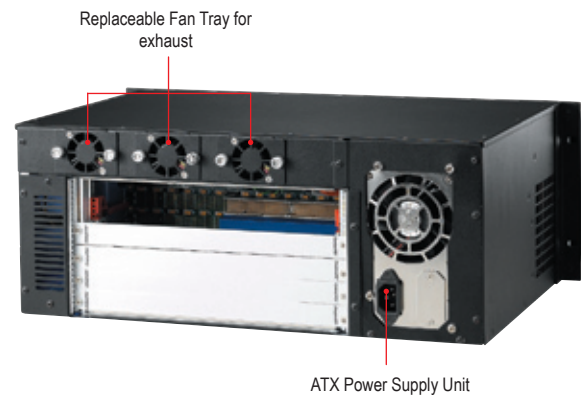
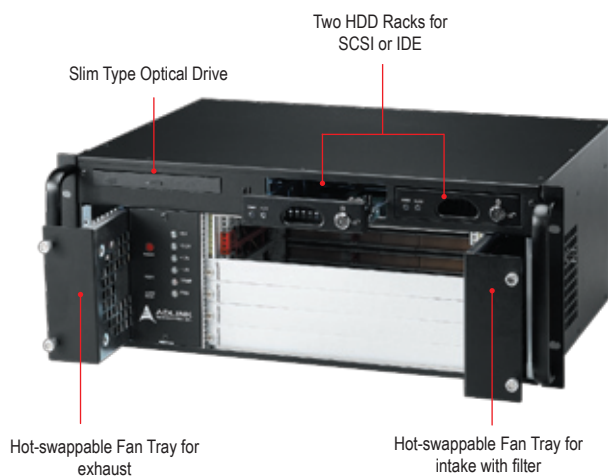
| Model Number | Description/Configuration |
|-----------------------|---|
| cPCIS-6400X/32 | 4U CompactPCI® Sub-system, 5-slot, 32-bit with ATX 400 W PSU, CD & Dual-ATA HD Racks |
| cPCIS-6400X | 4U CompactPCI® Sub-system, 5-slot, 64-bit with ATX 400 W PSU, CD & Dual-ATA HD Racks |
| cPCIS-6400XS |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

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

Mechanical Layout



Rear View





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 |
| 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/DC4 (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 <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> • 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 IDE optical drive (model dependent) |
| 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-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 |
|-------------------------|--------------------------|
| cPCI-6860A | cPCI-R6860A, cPCI-R6860L |
| cPCI-6840, cPCI-6840V | cPCI-R6840, cPCI-R6841 |
| cPCI-6910 | cPCI-R6910* |
| | cPCI-R6911 |
| cPCI-6920* | cPCI-R6920* |
| cPCI-6880 | cPCI-R6000 |

Note: *Does not support optical drive

Ordering Information

Modules

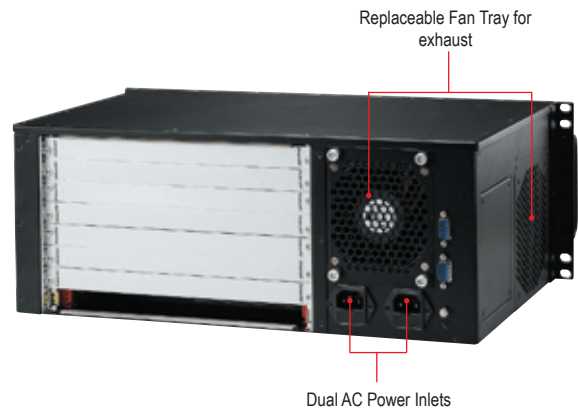
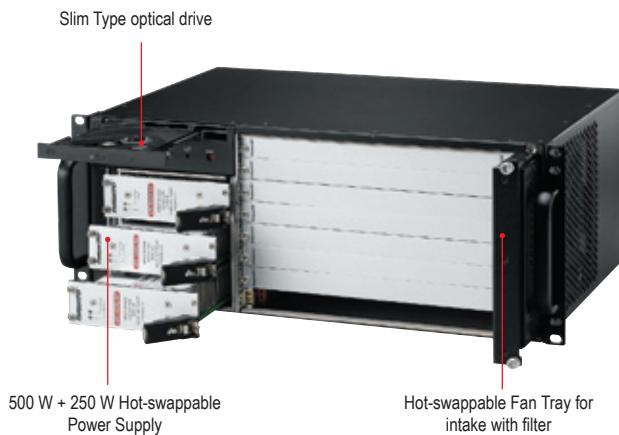
| Model Number | Description/Configuration |
|-------------------------------|--|
| cPCIS-6418U/AC | 4U CompactPCI® Sub-system, 8-slot, 64-bit, CD-ROM, with 2+1 PSU, Dual AC input |
| cPCIS-6418U/Dual AC/WM | 6U CompactPCI® 4U High Sub-system, 8-slot, 64-bit, CD-ROM, with three PSU, and Dual AC Inlet Box, Web access alarm board |

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

Mechanical Layout



Rear View





Features

- 19" rackmount, 2U height for 6U cPCI boards with 80 mm rear I/O
- Suitable for one dual-slot system module (cPCIS-6230R Series) or one single-slot system board with three expansion boards (cPCIS-6240R Series)
- Standard 6U CompactPCI® and optional PICMG® 2.5 H.110 CT Bus
- PICMG® 2.1 Hot Swap compliant 32-bit/64-bit 3-slot/4-slot CompactPCI® backplane with P3 & P5 rear I/O
- Built-in 300 W AC input 1U ATX power supply
- Built-in slim type optical drive
- Internal space for one 2.5" HDD drive bay and one 3.5" HDD drive bay
- Guarded power switch and reset button

Specifications

| | |
|----------------|--|
| Enclosure | EIA RS-310C 19" 2U high rackmount enclosure Coated metal plate outer covering Guarded power switch and reset button |
| Form Factor | 6U CompactPCI® with 80 mm depth rear I/O |
| CompactPCI® | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0 |
| Standards | |
| Backplane | cBP-6103R (cPCIS-6230R): 3-slot 32-bit CT Bus Backplane cBP-6104R (cPCIS-6240R): 4-slot 32-bit CT Bus Backplane cBP-6403R (cPCIS-6230R/64): 3-slot 64-bit CT Bus Backplane cBP-6403R/N110 (cPCIS-6230R/64/N110): 3-slot 64-bit Backplane w/o H.110 CT Bus |
| Power Supply | 300 W 1U ATX power supply with cooling fan |
| AC Input | Full range, 100-240 VAC (with ±10% tolerance) Frequency range: 50-60Hz (±3Hz) |
| DC Output | 24 A @ +5 V, 20 A @ +3.3 V, 20 A @ +12 V, 0.5 A @ -12 V (+5 Vsb and -5 V are not used in cPCI system) Maximum total output for +5 V and +3.3 V: 170 W Maximum total output for all DC: 284 W Efficiency: 65% at 115 V, full load |
| Protection | Over load protection: 110% - 160% Over voltage protection on +5 V, +3.3 V, +12 V Short circuit protection: each voltage output Over temperature protection: 70°C |
| Certifications | FCC class B, CISPR22 class B UL 1950, CSA22.2 No.950 TÜV IEC 950 Optional 48 V DC model is available for OEM programs |

| | |
|--------------------|--|
| Basic Alarm Module | LEDs indicate power voltage status on 5 V, 3.3 V, 12 V and -12 V |
| Cooling System | Four cooling fans for intake and exhaust: <ul style="list-style-type: none"> • 12 V DC brushless • Two fans for intake and two fans for exhaust with 30 CFM each • Rated speed for each fan: 3300 ±400 RPM • Rated power for each fan: 1.9 W |
| Drive Bay | Built-in slim type optical drive Internal space for one 2.5" HDD drive bay and one 3.5" HDD drive bay |
| Dimensions | 483.4 x 88.1 x 317.6 (mm, W x H x D, w/ handle) |
| Weight | cPCIS-6230R series: 15.1 kg/33.2 lbs (including optical drive) cPCIS-6240R series: 15.5 kg/34.1 lbs (including optical drive) |
| Operating Temp. | 0°C to 50°C |
| Storage Temp. | -20°C 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 |

Recommended Configurations

| CPU Board (System slot) | Rear I/O Board |
|---|--------------------------|
| cPCIS-6230R and cPCIS-6240R | |
| cPCI-6841 | |
| cPCIS-6230R/64 and cPCIS-6230R/64/N110 | |
| cPCI-6860A | cPCI-R6860A, cPCI-R6860L |
| cPCI-6840, cPCI-6840V* | cPCI-R6840, cPCI-R6841 |
| cPCI-6841 | |
| cPCI-6880 | cPCI-R6000(D) |

Note: *Does not support FDD.

Product Matrix

| | 3-slot | 4-slot |
|-----------------------------------|---------------------|--------------|
| 32-bit Backplane | cPCIS-6230R | cPCIS-6240R |
| 64-bit Backplane | cPCIS-6230R/64 | cPCIS-6400XS |
| 64-bit Backplane w/o H.110 | cPCIS-6230R/64/N110 | |

Ordering Information

Modules

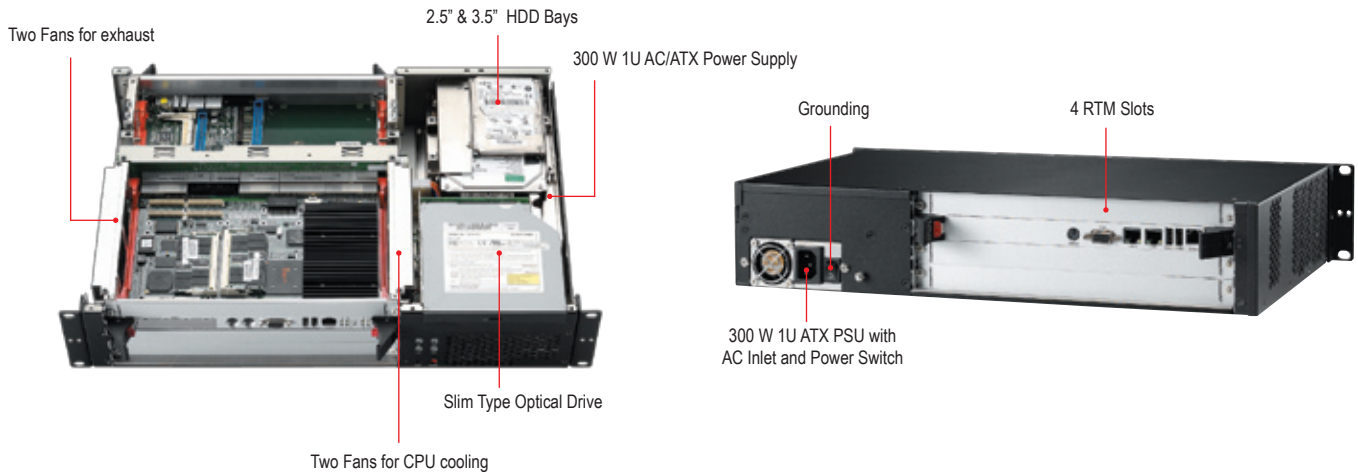
| Model Number | Description/Configuration |
|----------------------------|---|
| cPCIS-6230R | 2U cPCI Sub-system, 3-slot, 32-bit with CD, 300 W AC power supply |
| cPCIS-6240R | 2U cPCI Sub-system, 4-slot, 32-bit with CD, 300W AC power supply |
| cPCIS-6230R/64 | 2U cPCI Sub-system, 3-slot, 64-bit with CD, 300 W AC power supply |
| cPCIS-6230R/64/N110 | 2U cPCI Sub-system, 3-slot, 64-bit, w/o H.110 CT Bus with CD, 300 W AC power supply |

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

Mechanical Layout



Rear View



cPCIS-6235R Series

2U Rackmount Chassis with Dual AC-Input Mini Redundant Power Supplies



Features

- 19" Rackmount, 2U height for 6U cPCI boards with 80 mm rear I/O
- Standard 6U CompactPCI® and PICMG® 2.5 H.110 CT Bus
- PICMG® 2.1 Hot Swap compliant 32/64-bit 3-slot CompactPCI® backplane with P3 & P5 rear I/O
- Built-in 300 W + 300 W Dual AC-input mini redundant power supply units
- LED indicators for power status, fan status, temperature alarm

Specifications

| | |
|-----------------------|--|
| Enclosure | EIA RS-310C 19" 2U high Rackmount enclosure Coated metal plate outer covering Guarded power switch and alarm reset button |
| CompactPCI® Standards | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0 |
| Form Factor | 6U CompactPCI® with 80 mm depth rear I/O |
| Backplane | cBP-6103R: 3-slot 32-bit 6U cPCI CT bus backplane cBP-6403R: 3-slot 64-bit 6U cPCI CT bus backplane cBP-6403R/N110: 3-slot 64-bit 6U cPCI without CT bus backplane |
| Power Supply | 300 W +300 W dual AC-input mini redundant power supplies with cooling fan Active PFC (full range), meets IEC-1000-3-2 CLASS D Dual-AC inlet with EMI noise filter: FCC Class B, CISPR22 Class B |
| Cooling | Two 40 mm DC fans per module |
| AC Input | Full Range, 100-220 VAC (±10%) Frequency Range: 47-63 Hz |
| DC Output | 32 A @ +5 V, 20 A @ +3.3 V, 16 A @ +12 V, 0.8 A @ -12 V, 0.5 A @ -5 V, 1.5 A @ +5 Vsb Maximum Total Output for +5 V and +3.3 V: 35 A Maximum Total Output for +5 V, +3.3 V and +12 V: 285 W Efficiency: 63% at 115 V, full load |
| Temperature Range | Operating 0°C to 40°C, Storage -20°C to 80°C |
| Certifications | UL 1950, CSA 22.2 NO/ 950, TÜV IEC 950 |
| Dimensions | 220 x 120 x 85 (mm, H x W x D) |
| LED Indicators | Six LEDs indicate power voltage status on +3.3 V, +5 V, +12 V and -12 V, fan status and temperature alarm |
| Cooling System | Front access hot swappable fan tray with three fan modules for exhaust <ul style="list-style-type: none"> • Fan type: 12 V DC brushless • Rated speed: 4000 RPM • Rated current: 0.22 A (Max 0.33 A) • Max air flow: 48.2 CFM • Acoustical noise: 41 dBA • MTBF: 70,000hrs • Three LEDs indicate fan status |
| Dimensions | 484.1 x 88.1 x 358.8 (mm, W x H x D, w/ handle) |
| Weight | 17.1 kg/38 lbs |
| Operating Temp. | 0°C to 40°C |
| Storage Temp. | -20°C 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: 0.50Grms, 5-500Hz, each axis, tested with 2.5" HDD |

Ordering Information

Modules

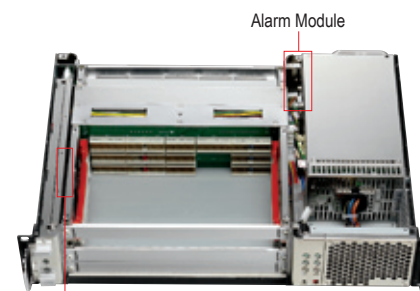
| Model Number | Description/Configuration |
|---------------------|---|
| cPCIS-6235R | 3-slot 2U 32-bit sub-system with 300 W + 300 W dual AC-input mini redundant PSU and hot swappable fan tray |
| cPCIS-6235R/64 | 3-slot 2U 64-bit sub-system with 300 W + 300 W dual AC-input mini redundant PSU and hot swappable fan tray |
| cPCIS-6235R/64/N110 | 3-slot 2U 64-bit sub-system with 300 W + 300 W dual AC-input mini redundant PSU and hot swappable fan tray without H.110 CT bus backplane |

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

Mechanical Layout

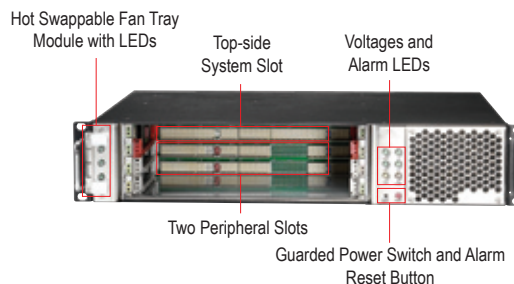


Rear View



Alarm Module

Thermal Sensor



Hot Swappable Fan Tray Module with LEDs

Top-side System Slot

Voltages and Alarm LEDs

Two Peripheral Slots

Guarded Power Switch and Alarm Reset Button

cPCIS-6130R Series

2-slot CompactPCI® Rackmount Chassis



Features

- 19" rackmount, 1U height for 6U cPCI boards with 80 mm rear I/O
- PICMG® 2.1 Hot Swap compliant 64-bit 2-slot CompactPCI® backplane
- One cPCI segment, lower-side system slot
- Built-in 200 W AC input power supply
- Guarded power switch and reset button

Specifications

| | |
|-----------------------|--|
| Enclosure | EIA RS-310C 19" 1U high rackmount enclosure Coated metal plate outer covering Guarded power switch and reset button |
| CompactPCI® Standards | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0 |
| Form Factor | 6U CompactPCI® with 80 mm depth rear I/O |
| Backplane | cBP-6402R: 2-slot 6U CompactPCI® backplane 64-bit/66 MHz cPCI bus One system slot at lower slot, with P3, P4, P5 rear I/O One peripheral slot, with P3, P5 rear I/O Utility connectors: Six Fans, PS_ON, Reset, PWR_LED |
| Power Supply | 200 W ATX power supply with AC input switch and cooling fan AC Input Universal AC input, 100-240 ±10% V AC 50-60 ±5% Hz PFC: Typical 0.95 Meets Harmonic Correction IEC1000-3-2 DC Output 25 A @ +5 V, 14 A @ +3.3 V, 8 A @ +12 V, 0.5 A @ -12 V (+5 Vsb and -5 V are not used in cPCI system) Maximum total output for +5 V and +3.3 V: 138 W Maximum total output for +5 V, +3.3 V, and +12 V: 186 W Efficiency: 65% at 115 V, full load Protection Over load protection: 110%-160% Over voltage protection on +5 V, +3.3 V Short circuit protection: each voltage output Certifications FCC class B, CISPR22 class B UL 1950, CSA 22.2 No.950 TÜV IEC 950 |
| Cooling System | Two fans for intake, one fan for exhaust on rear board 12 V DC brushless, VAPO bearing 10.8 CFM/each Rated speed for each fan: 8200 ±1000 RPM Rated power for each fan: 1.6 W Three fans for front board exhaust 12 V DC brushless, VAPO bearing 8 CFM/each Rated speed for each fan: 7000 ±1000 RPM Rated power for each fan: 1.2 W |
| Dimensions | 482.6 x 43.9 x 302.7 (mm, W x H x D, w/ handle) |
| Weight | 4.5 kg/9.9 lbs (including power supply and backplane) |
| Operating Temp. | 0°C to 50°C |
| Storage Temp. | -20°C 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 |
| NEBS | Designed for NEBS Level 3 |

Ordering Information

Modules

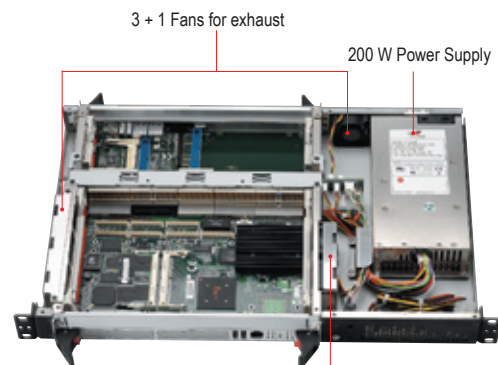
| Model Number | Description/Configuration |
|-------------------------|---|
| cPCIS-6130R | 2-slot 1U 64-bit CompactPCI® Chassis with 200 W Power Supply and Rear I/O |
| cPCIS-6130R/DC4 | 2-slot 1U 64-bit CompactPCI® Chassis with 150 W DC48V Power Supply and Rear I/O |
| cPCIS-6130R/N110 | 2-slot 1U 64-bit CompactPCI® Chassis with 200 W Power Supply and Rear I/O without H.110 Bus |

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

Mechanical Layout



Rear View



3 + 1 Fans for exhaust

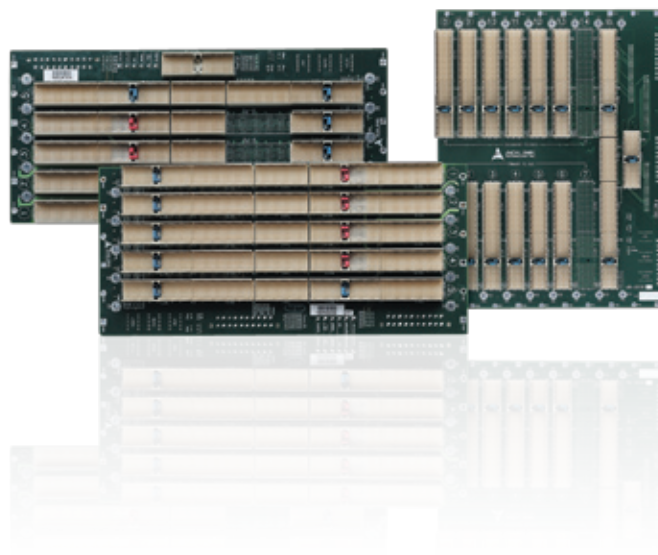
200 W Power Supply

Two Fans for CPU cooling

6U CompactPCI® Backplanes

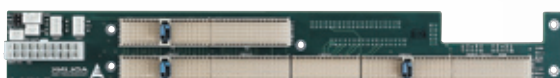
Standard and Custom Backplanes

ADLINK offers a wide selection of standard backplanes. Our professional OEM team is capable of creating custom backplanes with quick turnaround tailored to your specifications. We make designing, developing, prototyping, and maintaining your projects simple & efficient. For all your backplane needs, contact us. We have a solution for you.



cBP-6402, 6402R

2-slot 64-bit 6U CompactPCI® Backplanes



cBP-6402 Front View



cBP-6402 Rear View



cBP-6402R Front View



cBP-6402R Rear View

Ordering Information

| Model Number | Description/Configuration |
|--------------|---|
| cBP-6402 | 2-slot 64-bit 6U cPCI Backplane |
| cBP-6402R | 2-slot 64-bit 6U cPCI Backplane with Rear I/O |

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

Specifications

| Model Name | cBP-6402 | cBP-6402R |
|--------------------------|--|--|
| PICMG® | 2.0 R3.0, 2.1 R2.0 | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0 |
| Dimensions | 309.6 x 39.64 (mm, W x H) | 321.5 x 39.64 (mm, W x H) |
| Segments | One | |
| cPCI Bus | Up to 64-bit/66 MHz | |
| System Slot | Left-hand side (soldered side) | |
| System Slot Rear I/O | No rear I/O | P3, P4 and P5 rear I/O with AB-type shroud |
| Peripheral Slot | One | |
| Peripheral Slot Rear I/O | No rear I/O | P3 and P5 rear I/O with AB-type shroud |
| V (I/O) | 3.3 V or 5 V selectable, factory default is 5 V | |
| Power Input | ATX connector | |
| System Slot Legacy I/O | KB, MS, COM1, FDD, IDE1, Speaker (pin compatible with cPCI-6780 and cPCI-6841) | None |
| Other Connectors | Five Fans, PS_ON, Reset, PWR_LED | Six Fans, PS_ON, Reset, PWR_LED |
| Chassis or Sub-systems | cPCIS-6125 | cPCIS-6130R |
| Recommended System Board | cPCI-6841 | cPCI-6860A series, cPCI-6840, cPCI-6841, cPCI-6910 (Host Slot) |

cBP-6105R, 6405R

5-slot 32/64-bit 6U CompactPCI® H.110 Bus Backplanes



cBP-6105R



cBP-6405R

Ordering Information

| Model Number | Description/Configuration |
|--------------|---|
| cBP-6105R | 5-slot 32-bit 6U cPCI H.110 Bus Backplane |
| cBP-6405R | 5-slot 64-bit 6U cPCI H.110 Bus Backplane |

Specifications

| Model Name | cBP-6105R | cBP-6405R |
|--------------------------|--|---|
| PICMG® | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0 | |
| Dimensions | 120.9 x 262.05 (mm, W x H, vertical insertion view) | |
| Segments | One | |
| cPCI Bus | 32-bit/33 MHz | Up to 64-bit/66 MHz |
| System Slot | Right-hand side (upper side for board's horizontal insertion) | |
| System Slot Rear I/O | P3, P4 and P5 rear I/O with AB-type shroud | |
| Peripheral Slot | Four | |
| Peripheral Slot Rear I/O | P3 and P5 rear I/O with AB-type shroud | |
| H.110 Bus | Comply with PICMG® 2.5, for all peripheral slots | |
| V (I/O) | 3.3 V or 5 V selectable, factory default is 5 V | |
| Power Connectors | One ATX connecto DC screw terminal | Two ATX connector DC screw terminals |
| System Slot Legacy I/O | FDD, IDE1 and IDE2 (pin compatible with cPCI-6780 and cPCI-6841) | None |
| Utility Board Slot | Yes | None |
| Other Connectors | INH#, Reset, PWR_FAL#, Voltage LEDs, H.110 Power Pairs (VRG, Vbat) | |
| Chassis or Sub-systems | cPCIS-6400X/32, cPCIS-6400U/32 series | cPCIS-6400X, cPCIS-6400U series |
| Recommended System Board | cPCI-6841 | cPCI-6860A, cPCI-6840, cPCI-6841, cPCI-6910 (Host Slot) |

cBP-6108R, 6408R

8-slot 32/64-bit 6U CompactPCI® Backplanes



cBP-6408R

Ordering Information

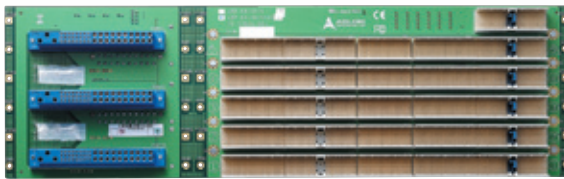
| Model Number | Description/Configuration |
|--------------|---|
| cBP-6108R | 8-slot 32-bit 6U cPCI H.110 Bus Backplane with Rear I/O |
| cBP-6408R | 8-slot 64-bit 6U cPCI H.110 Bus Backplane with Rear I/O |

Specifications

| Model Name | cBP-6108R | cBP-6408R |
|--------------------------|---|---|
| PICMG® | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0, 2.9 R1.0* | |
| Dimensions | 202.5 x 262.05 (mm, W x H, vertical insertion view) | |
| Segments | One | |
| cPCI Bus | 32-bit/33 MHz | Up to 64-bit/66 MHz |
| System Slot | Right-hand side | |
| System Slot Rear I/O | P3, P4 and P5 rear I/O with AB-type shroud | |
| Peripheral Slot | Seven | |
| Peripheral Slot Rear I/O | P3 and P5 rear I/O with AB-type shroud | |
| H.110 Bus | Comply with PICMG® 2.5, for all peripheral slots | |
| V (I/O) | 3.3 V or 5 V selectable, factory default is 5 V | |
| Power Connectors | Three ATX connectors DC screw terminals | |
| System Slot Legacy I/O | FDD, IDE1 and IDE2 (pin compatible with cPCI-6780 and cPCI-6841) | None |
| Utility Board Slot | Yes (pin compatible with cPCI-6760D) | None |
| Other Connectors | INH#, Reset, PWR_FAL#, Voltage LEDs, H.110 Power Pairs (VRG, Vbat), PICMG 2.9 IPMB* | |
| Chassis or Sub-systems | cPCIS-3120, 3330 series | cPCIS-3140, 3330/64 series |
| Recommended System Board | cPCI-6841 | cPCI-6860A, cPCI-6840, cPCI-6841, cPCI-6910 (Host Slot) |

cBP-6415U

5-slot 64-bit 6U CompactPCI® backplanes



Front View



Rear View

Ordering Information

| Model Number | Description/Configuration |
|----------------|---|
| cBP-6415U | 5-slot 64-bit 6U cPCI Backplane |
| cBP-6415U/N110 | 5-slot 64-bit 6U cPCI Backplane without H.110 |

Specifications

| | |
|--------------------------|---|
| Model Name | cBP-6415U |
| PICMG® | PICMG® 2.0 R3.0, 2.1 R2.0, 2.5 R1.0, 2.11 R1.0 |
| Dimensions | 120.92 x 394.85 (mm, W x H) |
| Segments | One |
| cPCI Bus | Up to 64-bit/66 MHz |
| System Slot | Right-hand side (top side for board's horizontal insertion) |
| System Slot Rear I/O | P3, P4, and P5 rear I/O with AB-type shroud |
| Peripheral Slot | Four |
| Peripheral Slot Rear I/O | P3, P4 and P5 rear I/O with AB-type shroud |
| H.110 Bus | Comply with PICMG® 2.5, for all peripheral slots |
| V (I/O) | 3.3 V or 5 V selectable, default 5 V |
| Power Input | Two ATX connectors One DC Screw terminal |
| Other Connectors | INH#, Reset, PWR_FAL#, PWR_LED |
| Chassis or Sub-systems | cPCIS-6400U |
| Recommended System Board | cPCI-6860A, cPCI-6840, cPCI-6910 (Host Slot) |

Note. Host only for cBP-6415U

cBP-6403R, cBP-6103R, cBP-6104R

3/4-slot 32/64-bit 6U CompactPCI® backplanes



cBP-6103R



cBP-6104R



cBP-6403R Front View



cBP-6403R Rear View

Ordering Information

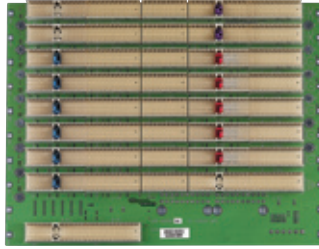
| Model Number | Description/Configuration |
|----------------|---|
| cBP-6103R | 3-slot 32-bit 6U cPCI Backplane |
| cBP-6104R | 4-slot 32-bit 6U cPCI Backplane |
| cBP-6403R | 3-slot 64-bit 6U cPCI Backplane |
| cBP-6403R/N110 | 3-slot 64-bit 6U cPCI Backplane w/o H.110 |

Specifications

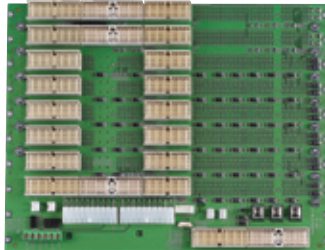
| Model Name | cBP-6103R | cBP-6104R | cBP-6403R | cBP-6403R/ N110 |
|--------------------------|---|---------------|--|-------------------------|
| PICMG® | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0 | | | |
| Dimensions (mm, W x H) | 279.2 x 81 | 330.55 x 83.3 | 279.2 x 81 | |
| Segments | One | | | |
| cPCI Bus | Up to 32-bit/33 MHz | | Up to 64-bit/66 MHz | |
| System Slot | Top side for board's horizontal insertion | | | |
| System Slot Rear I/O | P3, P4, and P5 rear I/O with AB-type shroud | | | |
| Peripheral Slot | Two | Three | Two | |
| Peripheral Slot Rear I/O | P3 and P5 rear I/O with AB-type shroud | | P3, P4 and P5 rear I/O with AB-type shroud | |
| H.110 Bus | Comply with PICMG 2.5, for all peripheral slots | | | None |
| V (I/O) | 3.3 V or 5 V selectable, default 5 V | | | |
| Power Connectors | One ATX connector | | | |
| System Slot legacy I/O | FDD, IDE1 (pin compatible with cPCI-6780 and cPCI-6841) | | | None |
| Other Connectors | INH#, Reset, PWR_FAL#, Voltage LEDs | | | |
| Chassis or Sub-systems | cPCIS-6230R | cPCIS-6240R | cPCIS-6230R/64 | cPCIS-6230R/64/ N110 |
| Recommended System Board | cPCI-6841 | cPCI-6841J3 | cPCI-6840, cPCI-6860, cPCI-6841 | |

cBP-6609A

8-slot 64-bit 6U CompactPCI® H.110 & PICMG® 2.16 Backplane



cBP-6609A Front View



cBP-6609A Rear View

Specifications

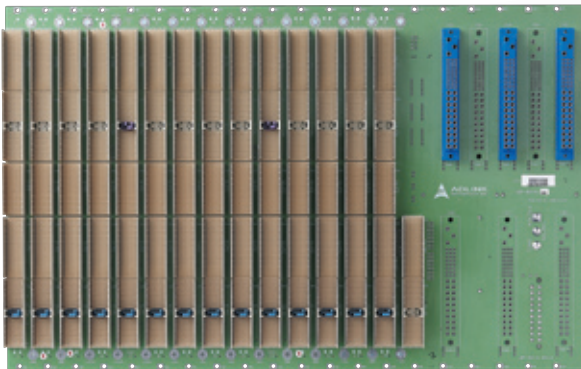
| | |
|--------------------------|---|
| Model Name | cBP-6609A |
| PICMG® | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0, 2.16, 2.9 R1.0 |
| Dimensions | 225 x 262.05 (mm, W x H) |
| Segments | One |
| cPCI Bus | Up to 64-bit/66 MHz |
| System Slot | Right-Hand side |
| System Slot Rear I/O | P3, P4, & P5 |
| Peripheral Slot | Five |
| Peripheral Slot Rear I/O | P4 & P5 |
| H.110 Bus | Comply with PICMG 2.5 for all peripheral slots (P4) |
| V (I/O) | 3.3 V or 5 V selectable, factor default is 5 V |
| Power Connectors | Two ATX, DC screw terminals |
| Chassis or Sub-system | cPSB-880 |
| Recommended System Board | cPCI-6860A, cPCI-6840, cPCI-6910 (Host Slot) |

Ordering Information

| Model Number | Description/Configuration |
|--------------|--|
| cBP-6609A | 8-slot 64-bit 6U cPCI H.110 & 2.16 Bus Backplane |

cBP-6614A

14-slot PICMG® 2.16 6U CompactPCI® Blade Server Backplane



Specifications

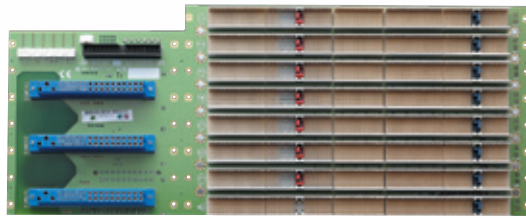
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|--------------------------|--|
| Model Name | cBP-6614A |
| PICMG® | 2.0 R3.0, 2.1 R2.0, 2.9 R1.0, 2.11 R1.0, 2.16 R1.0 |
| Dimensions | 420.6 x 262.05 (mm, W x H) |
| 2.16 Node Slot | 12 |
| 2.16 Fabric Slot | Two |
| cPCI Bus | None |
| System Slot | All node slots act as stand-alone system slots |
| Slot Rear I/O | P3, P4 and P5 rear I/O with AB-type shroud |
| Peripheral Slot | None |
| CMM Slot | One |
| Power Socket | 3 for 6U 8HP redundant power module |
| H.110 Bus | None |
| V (I/O) | 3.3 V or 5 V selectable, factory default is 5 V |
| Power Connectors | AC/DC input, One ATX connector, DC screw terminals |
| Other Connectors | INH#, FAL#, DEG#, Voltage LEDs, Reset, PICMG® 2.9 IPMB |
| Chassis or Sub-systems | cPCIS-3300BLS series |
| Recommended System Board | cPCI-6860A, cPCI-6840, cPCI-6910 |

Ordering Information

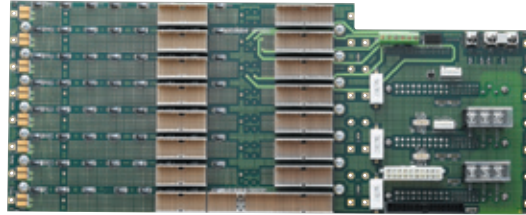
| Model Number | Description/Configuration |
|--------------|--|
| cBP-6614A | 14-slot PICMG® 2.16 6U cPCI Blade Server Backplane |

cBP-6418U

8-slot 64-bit 6U CompactPCI® backplanes



Front View



Rear View

Specifications

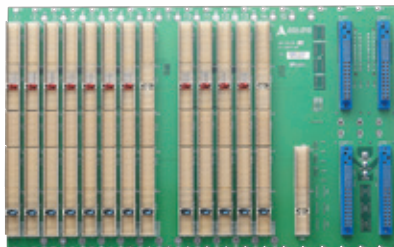
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|--------------------------|---|
| Model Name | cBP-6418U |
| PICMG® | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0, 2.11 R1.0 |
| Dimensions | 395 x 162 (mm, W x H) |
| Segments | One |
| cPCI Bus | Up to 64-bit/66 MHz |
| System Slot | Right-hand side (top side for board's horizontal insertion) |
| System Slot Rear I/O | P3, P4, and P5 rear I/O with AB-type shroud |
| Peripheral Slot | Seven |
| Peripheral Slot Rear I/O | P3 and P5 rear I/O with AB-type shroud |
| H.110 Bus | Comply with PICMG® 2.5, for all peripheral slots |
| V (I/O) | 3.3 V or 5 V selectable, default 5 V |
| Power Input | One ATX connector, Two DC Screw terminals |
| Other Connectors | INH#, Reset, PWR_FAL#, Voltage LEDs |
| Chassis or Sub-systems | cPCIS-6418U |
| Recommended System Board | cPCI-6860A, cPCI-6840, cPCI-6910 (Host Slot) |

Ordering Information

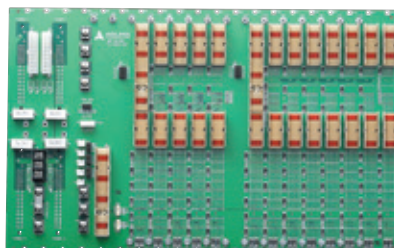
| Model Number | Description/Configuration |
|--------------|---------------------------------|
| cBP-6418U | 8-slot 64-bit 6U cPCI Backplane |

cBP-6413DR

13-slot 64-bit 6U CompactPCI® backplanes



Front View



Rear View

Specifications

| | |
|--------------------------|--|
| Model Name | cBP-6413DR |
| PICMG® | 2.0 R3.0, 2.1 R2.0, 2.5 R1.0, 2.9 R1.0, 2.11 R1.0 |
| Dimensions | 415.56 x 262.05 (mm, W x H) |
| Segments | Two |
| cPCI Bus | Up to 64-bit/66 MHz |
| System Slot | Right-hand side |
| System Slot Rear I/O | P3, P4, and P5 rear I/O with AB-type shroud |
| Peripheral Slot | Seven |
| Peripheral Slot Rear I/O | P3 and P5 rear I/O with AB-type shroud |
| H.110 Bus | Bus Comply with PICMG® 2.5, for all peripheral slots |
| V (I/O) | 3.3 V or 5 V selectable, default 5 V |
| Power Input | Two ATX connectors, one DC Screw terminal |
| CMM Slot | 1 |
| Other Connectors | INH#, Reset, PWR_FAL#, Voltage LEDs |
| Chassis or Sub-systems | cPCIS-3320 |
| Recommended System Board | cPCI-6860A, cPCI-6840 |

Ordering Information

| Model Number | Description/Configuration |
|--------------|----------------------------------|
| cBP-6413DR | 13-slot 64-bit 6U cPCI Backplane |

cPS-H640/AC, H640/48

400 W 6U CompactPCI® Hot-Swappable Redundant Power Supply



Features

- PICMG® 2.11 CompactPCI® Power Interface compliant
- 6U CompactPCI® 8HP form factor
- PICMG® 2.11 47-pin CompactPCI® in-rack power module interface
- 400 W DC output, maximum 480 W peak output
- Active PFC (Power Factor Correction) meets IEC1000-3-2 Harmonic Correction
- Internal OR-ing Diodes for N+1 redundancy
- Hot swappable
- Active current sharing
- EN 55022 & FCC Class A
- Supports remote ON/OFF
- Supports power failure signal & degradation signal

Specifications

| Model Name | cPS-H640/AC | cPS-H640/48 |
|--|---|---------------|
| PICMG Standards | PICMG® 2.11 CompactPCI 47-pin Power Interface compliant | |
| Form Factor | 6U cPCI (233.33 x 160 mm), 2-slot (8HP) wide | |
| Input Voltage | 100-240 10% V AC | 36-72 V DC |
| Input Frequency | 50-60 5% Hz | DC |
| Input Current | 5.1 A @115 V AC / 2.5 A @ 230 V AC | 12A @ 48 V DC |
| Inrush Current | < 30 A @230 V AC | N/A |
| Power Factor Correction (PFC, only for AC) | Typical 0.97-0.99 Meets Harmonic Correction IEC1000-3-2 | |
| Output Voltage/Current | 5 V: Typ. 40.0 A, Max. 50.0 A 3.3 V: Typ. 20.0 A, Max. 40.0 A +12 V: Typ. 10.0 A, Max. 15.0 A -12 V: Typ. 2.0 A, Max 5.0 A ** Max. load is the continuous operating load of each rail individually. The Max. load of each rail cannot be drawn from all outputs simultaneously. | |
| Output Voltage Minimum Load | 1.0 A @ +5 V | |
| Output Wattage | Typical 400 W continuous, maximum 480 W peak output | |
| Line Regulation | Typical 0.1% | |
| Load Regulation | Typical 1-3% | |
| Ripple | 50 mV @ +5 V and 3.3 V outputs, 120 mV @ +12V and -12V outputs | |
| Hold-up Time | 10 ms after power fail signal | |
| Efficiency | Typical 79-83% | |
| Output voltage sense and current sharing | Available at 5 V , 3.3 V and +12 V outputs | |
| N+1 Redundancy | Installed with internal OR-ing diodes at all outputs for N+1 redundancy operation | |
| Remote ON/OFF | Available at [INH#] & [EN#] | |

| | | |
|--------------------------|---|-----|
| Power Failure Signal | Available at [FAL#] pin | |
| Power Degradation Signal | Available at [DEG#] pin | |
| Protections | Over Temperature Protection (OTP): 70°C Over Current Protection (OCP): Installed at each rail Over Load Protection (OLP): Typical 120% max. load, fully protected against output overload or short circuit. Over Voltage Protection (OVP): Built-in at all outputs | |
| Status LED | < Green LED > [POWER] means valid input voltage < Amber LED > [FAULT] means a critical fault | |
| Earth Leakage | < 0.9mA @ 230 V AC > | N/A |
| Operating Temp. | 0°C to 70°C (0°C to +40°C at full load with specified air flow. De-rates linearly to 50% at +70°C.) | |
| Storage Temp. | -20°C to +85°C | |
| Humidity | 20% to 90% non-condensed | |
| Shock | 15 G peak-to-peak, 11 ms duration, non-operation | |
| Vibration | Operation: 1.88 Grms, 5-500 Hz, each axis | |
| Cooling Requirement | Minimum 20 CFM airflow is required for typical full rating power | |
| Compliance | IEC950, EN 55022, FCC Class A, IEC60950 Class I | |

Ordering Information

| Model Number | Description/Configuration |
|--------------------|---|
| cPS-H640/AC | PICMG® 2.11 47-Pin Hot-Swap Redundant 6U Compact-PCI 8HP 400 W Power Module with Universal AC Input |
| cPS-H640/48 | PICMG® 2.11 47-Pin Hot-Swap Redundant 6U Compact-PCI 8HP 400 W Power Module with 36-72 V DC Input |