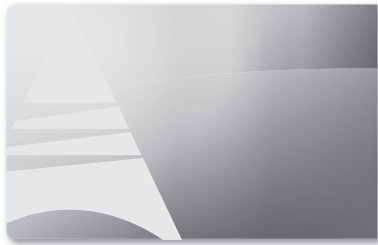


Selection Guide

3U CompactPCI® Platforms



Model Name		cPCIS-2630	cPCIS-2632	cPCIS-2642	cPCIS-2633
Form Factor	19" Rackmount	Y	Y	Y	Y
	Desktop	Y	Y	Y	Y
	Wallmount	--	--	--	--
	Height	4U	4U	4U	4U
Backplane	Total Systems	1	1	2	1
	Total Slots	8	8	12	13
	System Slots	1	1	1 x2	1
	Peripheral Slots	7	7	5 x2	12
	Bus Structure	32/33 PCI™	32/33 PCI™	32/33 PCI™	32/33 PCI™
Power Supply	Redundant PSU	--	250 W x 2 ⁽¹⁾	250 W x 2 ⁽¹⁾	250 W x 3 ⁽¹⁾
	Non-redundant PSU	400 W	--	--	--
Alarm	Fan Status	Y	Y	Y	Y
	Over Temp.	Y	Y	Y	Y
Rear I/O ⁽²⁾	Depth	50 mm	50 mm	50 mm	50 mm
	Implementation	Optional	Optional	Optional	Optional
Page Number		5-3	5-3	5-4	5-4



Model Name		cPCIS-1100A	cPCIS-1102	cPCIS-1202	cPCIS-2501
Form Factor	19" Rackmount	Y	Y	Y	--
	Desktop	Y	Y	Y	Y
	Wallmount	Y	Y	Y	Y
	Height	3U	3U	3U	4U
Backplane	Total Systems	1	1	2	1
	Total Slots	8	8	12	6
	System Slots	1	1	1 x2	1
	Peripheral Slots	7	7	5 x2	5
	Bus Structure	32/33 PCI™	32/33 PCI™	32/33 PCI™	32/33 PCI™
Power Supply	Redundant PSU	--	250 W x 2 ⁽¹⁾	250 W x 2 ⁽¹⁾	250 W ⁽¹⁾
	Non-redundant PSU	500 W	--	--	--
Alarm	Fan Status	--	--	--	--
	Over Temp.	--	--	--	--
Rear I/O ⁽²⁾	Depth	50 mm	50 mm	50 mm	50 mm
	Implementation	Optional	Optional	Optional	Optional
Page Number		5-5	5-5	5-5	5-6

Note 1: Use modular power supply based on PICMG® 2.11 standard.

Note 2: Rear I/O is not defined in CompactPCI® specification 2.0 for 3U applications.

The 50 mm Rear I/O transition module depth is not compliant to PICMG® 2.0 CompactPCI® specification Rev. 3.0.

cPCIS-2600 Series

Versatile 3U Platforms with Hot-Swappable Fans and Chassis Alarm



Introduction

The cPCIS-2600 Series is designed for demanding applications, the needs of which cannot be met by passive backplane PCI systems. This sturdy, flexible, and versatile platform is ideal for desktop, benchtop or 19" rackmount configurations. The base card cage of the cPCIS-2600 provides a total 84HP (21-slot) space for 3U form factor CompactPCI or PXI modules. The space can be configured to accommodate, redundant modular power supplies, and front or rear panel I/O access. The built-in chassis alarm module can monitor internal temperature and cooling fan status. It will alert users if the system temperature exceeds a preset value or of fan failure. Front-access hot-swappable fan tray design makes chassis maintenance simpler and easier. The cPCIS-2600 Series is the ideal platform for test and measurement, instrumentation, traffic control, industrial automation, and mission critical applications.

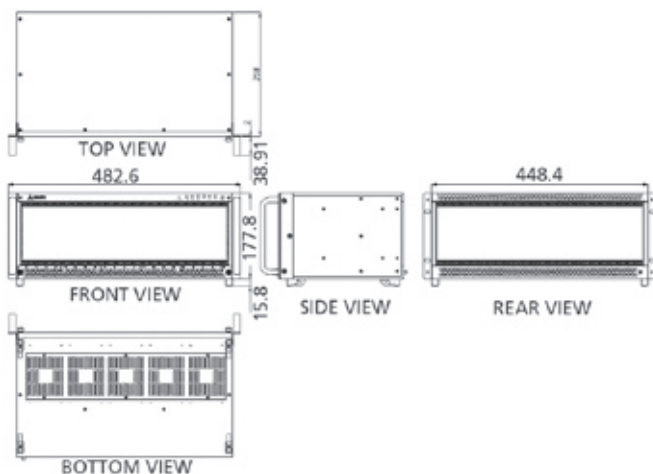
Specifications

CompactPCI® Standards	2.0 R2.0
Form Factor	3U cPCI with 50 mm depth rear I/O
Enclosure	EIA RS-310C 19" 4U high rackmount enclosure Coated metal plate outer covering Guarded power switch and reset button
Alarm Module	Monitors inner chassis temperature and fan status Abnormal status will generate alarm and LED warning Alarm reset
Cooling System	LED shows power voltage status on 5V, 3.3V, 12V, and -12V Front-access hot-swappable low noise fan trays for intake: 12V DC brush-less, ball bearings Five fan trays with 36.02 CFM/fan Rated speed for each fan: 2800 RPM Rated power for each fan: 1.56 W

Power Supply	Optional industrial grade ATX power supply or PICMG® 2.11 47-pin 3U cPCI power modules, depending on subsystem configuration
Backplane	3U backplanes, model dependant on subsystem configuration
Dimensions	448.4 x 177.8 x 258 (mm, W x H x D, excluding brackets)
Operating Temp.	0° to 60°C
Storage Temp.	-20° to 80°C
Humidity	5% to 95%, non-condensed
Shock	15 G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.8 8Grms, 5-500 Hz, each axis Operation: 0.5 Grms, 5-500 Hz, each axis, tested with 2.5" HDD

Dimensions

Units: mm



Mechanical Layout



Front-Access Hot-Swappable Fans



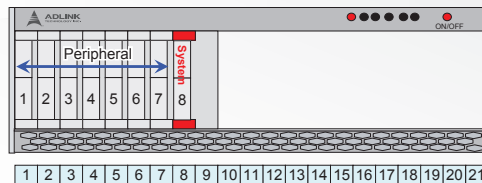
Temperature, Voltage and Fan Monitoring LEDs



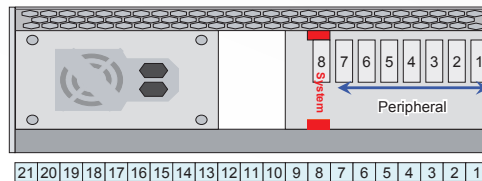
Redundant Power Supply

cPCIS-2630 Series

3U CompactPCI® Sub-system with 8-slot Backplane and 400 W ATX Power Supply



cPCIS-2630R Inside Front View



cPCIS-2630R Inside Rear View

Features

- 3U CompactPCI® backplane with seven peripheral card slots and one system slot
- Supports rear I/O backplane with P2 Connectors (cPCIS-2630R)
- Temperature, voltage, and fan monitoring LEDs
- Hot-swappable cooling fans & filter
- 400 W ATX Power supply

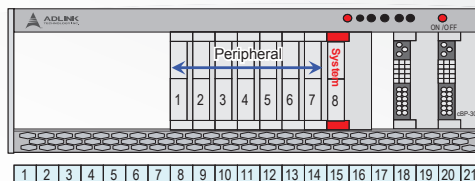
Ordering Information

Model Name	System	Peripheral	Rear	Alarm Module	PSU QTY	PSU MAX	PICMG®
cPCIS-2630	1	7	N/A	Yes	1	400 W	2.0, 2.1
cPCIS-2630R	1	7	7	Yes	1	400 W	2.0, 2.1

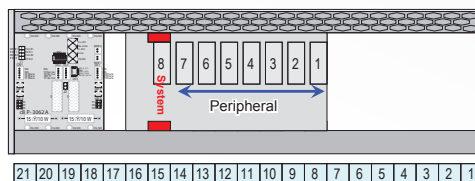
Note: 1. EMC blank panels (cPCI-Panel-Kit-3U1S) are optional. All models above do not include any system or peripheral boards.
2. cPCI RTM (50mm) well apply to this model.

cPCIS-2632 Series

3U CompactPCI® Sub-system with 8-slot Backplane and 1 + 1 CompactPCI® Redundant Power Modules



cPCIS-2632R Inside Front View



cPCIS-2632R Inside Rear View

Features

- 3U CompactPCI® backplane with seven peripheral card slots and one system slot
- Temperature, voltage, and fan monitoring LEDs
- Supports current sharing on +5 V, +3.3 V, and +12 V
- 1 + 1 hot swappable 250 W + 250 W CompactPCI® power supplies
- PICMG® 2.11 47-pin power interface
- Hot-swappable cooling fans & filter
- Supports rear I/O backplane with P2 connector (cPCIS-2632R)

Ordering Information

Model Name	System	Peripheral	Rear	Alarm Module	PSU QTY	PSU MAX	PICMG®
cPCIS-2632	1	7	N/A	Yes	2	500 W (1 + 1)	2.0, 2.1, 2.11
cPCIS-2632R	1	7	7	Yes	2	500 W (1 + 1)	2.0, 2.1, 2.11

Note: 1. EMC blank panels (cPCI-Panel-Kit-3U1S) are optional. All models above do not include any system or peripheral boards.
2. cPCI RTM (50mm) well apply to this model.

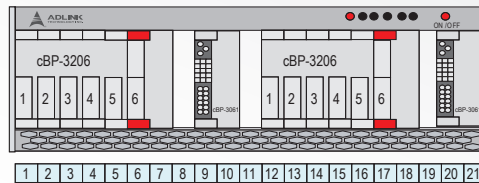
cPCIS-2642 Series

Dual 3U CompactPCI® Sub-system with 2 sets of 6-slot Backplane and CompactPCI Power Modules

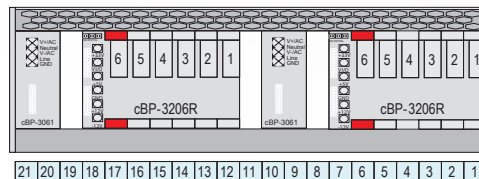


Features

- Dual 3U CompactPCI® Systems, each with five peripheral card slots and one system slot
- 1/1 hot swappable 250 W CompactPCI® Power supplies
- Temperature, voltage, and fan monitoring LEDs
- Supports current sharing on +5 V, +3.3 V, and +12 V
- PICMG® 2.11 47-pin power interface
- Hot-swappable cooling fans & filter
- Supports rear I/O backplane with P2 Connectors (cPCIS-2642R)



cPCIS-2642R Inside Front View



cPCIS-2642R Inside Rear View

Ordering Information

Model Name	Segment	System	Peripheral	Rear	Alarm Module	PSU QTY	PSU MAX	PICMG®
cPCIS-2642	2	1/1	5/5	N/A	Yes	1/1	250 W	2.0, 2.1, 2.11
cPCIS-2642R	2	1/1	5/5	5/5	Yes	1/1	250 W	2.0, 2.1, 2.11

Note: 1. EMC blank panels (cPCI-Panel-Kit-3U1S) are optional. All models above do not include any system or peripheral boards.
2. cPCI RTM (50mm) well apply to this model.

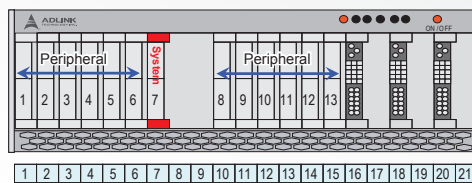
cPCIS-2633 Series

3U CompactPCI® Sub-system with 13-slot Backplane, 2 + 1 CompactPCI Redundant Power Modules

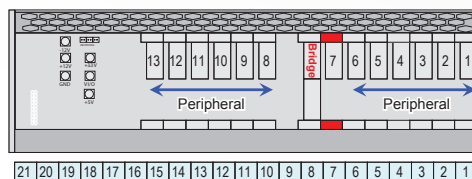


Features

- 3U CompactPCI® backplane with 12 peripheral card slots and one system slot
- 2 + 1 hot swappable 500 W + 250 W CompactPCI® Power supply (each with 250 W redundant power supply)
- Temperature, voltage, and fan monitoring LEDs
- Supports current sharing on +5V, +3.3V, and +12V
- PICMG® 2.11 47-pin power interface
- Hot-swappable cooling fans & filter
- Supports rear I/O backplane with P2 Connectors (cPCIS-2633R)



cPCIS-2633R Inside Front View



cPCIS-2633R Inside Rear View

Ordering Information

Model Name	System	Peripheral	Rear	Alarm Module	PSU QTY	PSU MAX	PICMG®
cPCIS-2633	1	12	N/A	Yes	3	750 W (2 + 1)	2.0, 2.1, 2.11
cPCIS-2633R	1	12	12	Yes	3	750 W (2 + 1)	2.0, 2.1, 2.11

Note: 1. EMC blank panels (cPCI-Panel-Kit-3U1S) are optional. All models above do not include any system or peripheral boards.
2. One cPCI segment, removable PCI to PCI bridge card for bus extension, system slot in the middle.
3. cPCI RTM (50mm) well apply to this model.

cPCIS-1100A Series

3U Enclosure with 32-bit Backplane, ATX/ CompactPCI® Redundant Power Supply



Features

- 3U CompactPCI® single system, seven peripheral card configuration or dual system, five peripheral card configuration
- Equipped with single PS/2 form factor 400 W ATX power supply or CompactPCI® redundant power supply (Max. output 500 W)
- Suitable for both rack-mount and desktop applications
- Comprehensive EMC shielding
- Optional rear I/O configuration

Ordering Information

Model Name	Segment	System	Peripheral	Rear	PSU QTY	PSU MAX	PICMG®
Single System, 400W ATX Power Supply							
cPCIS-1100A	1	1	7	N/A	1*	400 W	2.0, 2.1
cPCIS-1100AR	1	1	7	7	1*	400 W	2.0, 2.1
Single System, 250W x 2 CompactPCI® Power Supplies							
cPCIS-1102	1	1	7	N/A	2*	500 W (250 W x2)	2.0, 2.1, 2.11
cPCIS-1102R	1	1	7	7	2*	500 W (250 W x2)	2.0, 2.1, 2.11

Note: 1. External cooling fan is required. 2. Power Supply Module description: * 1*: Universal Auto Switch 400 W Power Supply * 2*: CompactPCI® redundant power supply x2 (500 W)
 3. EMC blank panels (cPCI-Panel-Kit-3U1S) are optional. All models above do not include any system or peripheral boards. 4. DC input models available for OEM programs
 5. cPCI RTM (50mm) well apply to this model.

Specifications

CompactPCI® Standard	2.0 R2.0
Form Factor	3U cPCI
Enclosure	19" 3U high rackmount enclosure
Power Supply	Optional industrial grade ATX power supply or PICMG® 2.11 47-pin 3U cPCI power module(s), depending on subsystem configuration
Backplane	3U backplane(s), model dependent on subsystem configuration
Dimensions	482.56 x 133.35 x 250.0 mm (W x H x D)
Certifications	DIN IEC 68-2-6 test FC DIN IEC 68-2-27 test Ea DIN41 494, part 5 IEC 60297-3, EIA 310-D

cPCIS-1202 Series

3U Enclosure with 32-bit Backplane, CompactPCI® Redundant Power Supply



Features

- 3U CompactPCI® single system, seven peripheral card configuration or dual system, five peripheral card configuration
- Equipped with CompactPCI® redundant power supply (Max. output 500 W)
- Suitable for both rack-mount and desktop applications
- Comprehensive EMC shielding
- Optional rear I/O configuration

Ordering Information

Model Name	Segment	System	Peripheral	Rear	PSU QTY	PSU MAX	PICMG®
Dual System with CompactPCI® Power Supply							
cPCIS-1202	2	1/1	5/5	N/A	1/1*	250 W	2.0, 2.1, 2.11
cPCIS-1202R	2	1/1	5/5	5/5	1/1*	250 W	2.0, 2.1, 2.11

Note: 1. External cooling fan is required. 2. Power Supply Module description: * 1/1*: One Power Supply for each segment
 3. EMC blank panels (cPCI-Panel-Kit-3U1S) are optional. All models above do not include any system or peripheral boards. 4. DC input models available for OEM programs.
 5. cPCI RTM (50mm) well apply to this model.

Specifications

CompactPCI® Standard	2.0 R2.0
Form Factor	3U cPCI
Enclosure	19" 3U high rackmount enclosure
Power Supply	Optional industrial grade ATX power supply or PICMG® 2.11 47-pin 3U cPCI power module(s), depending on subsystem configuration
Backplane	3U backplane(s), model dependant on subsystem configuration
Dimensions	482.56 x 133.35 x 250.0 mm (W x H x D)
Certifications	DIN IEC 68-2-6 test FC DIN IEC 68-2-27 test Ea DIN41 494, part 5 IEC 60297-3, EIA 310-D

cPCIS-2500 Series

3U CompactPCI® 6-slot Cubic Chassis with CompactPCI® Power Module



cPCIS-2501 Front View

Features

- Compact size, 4U high enclosure for 3U CompactPCI® cards
- Side handle design for portable applications
- Stand feet on bottom side for desktop applications
- Versatile wall-mount application with mounting kit
- Standard PICMG® 2.11 47-Pin modular power supply
- Bottom-access removable filter for easy maintenance
- Built-in efficient cooling system

Specifications

Standards	CompactPCI® 2.0 R3.0
Form Factor	For 3U CompactPCI® cards without rear I/O
Enclosure	Coated metal plate outer covering with aluminum framework
Cooling System	Bottom-access removable fans for intake: 12V DC brush-less, ball bearings Two fans with 67.02 CFM/fan Rated speed for each fan: 4500 RPM Rated power for each fan: 6 W
Power Supply	Power backplane: cBP-3061 Supports single in-rack 3U cPCI 8HP power modules PICMG 2.11 47-pin power interface Available power module: cPS-H325/AC (250 W redundant each) DC input models available for OEM programs
Backplane	cBP-3206: 6-slot 32-bit 3U cPCI Backplane
Chassis Partition	Five slots for peripheral cards Three slots for system module Two slots for three 3U 8HP cPCI power modules

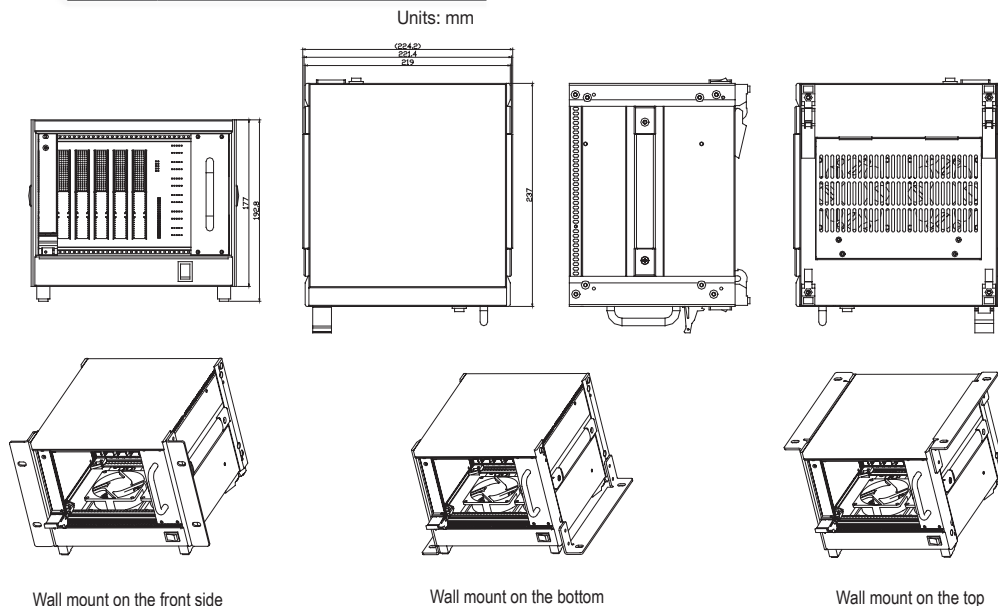
Dimensions	221.4 x 237 x 177 (mm, W x D x H, w/o wall mount kit or stand feet) 253.1 x 237 x 177 (mm, W x D x H, with wall mount kit or stand feet)
Weight	4.5 kg/9.9 lbs (without SBC, PSU, with backplane)
Operating Temp.	0° to 60°C
Storage Temp.	-20° to 80°C
Humidity	5% to 95%, non-condensed
Shock	15 G peak-to-peak, 11 ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis Operation: 0.5Grms, 5-500 Hz, each axis, tested with 2.5" HDD
Safety or Certificate	CE/LVD

Ordering Information

Model Number	Description/Configuration
cPCIS-2501/AC	3U CompactPCI® 6-slot Cubic Chassis with cPS-H325/AC

Note: EMC blank panels (cPCI-Panel-Kit-3U1S) are optional. All models above do not include any system or peripheral boards.

Dimensions

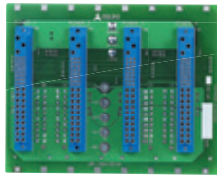


3U CompactPCI Backplanes

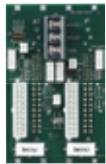
cBP-306X Series



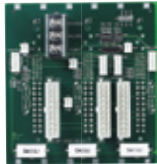
cBP-3061 Front View



cBP-3064 Front View



cBP-3062A Rear View



cBP-3063 Rear View

PICMG® 2.11 3U CompactPCI® 47-pin Power Backplanes

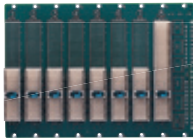
Specifications

Model Name	cBP-3061	cBP-3062A	cBP-3063	cBP-3064
PICMG®	2.0 R3.0, 2.11 R1.0			
Dimensions (mm, W x H)	40.64 x 128.7	80.28 x 128.7	120.92 x 128.7	161.56 x 128.7
Power Module Sockets	1	2	3	4
AC/DC input screw terminal DC output (ATX connector)	Yes			
Cascading Current Sharing	1	2	3	4
Cascading Voltage Sense	Yes			
Cascading Current Sense	Dedicated voltage sense connector			
INH#/FAL#/DEG# distribution	Selectable common INH#/FAL#/DEG# or separated INH# for each power module, dedicated connector			
PICMG® 2.9 IPMB Socket	No	Yes		

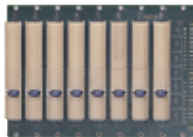
Ordering Information

Model Number	Description/Configuration
cBP-3061	PICMG® 2.11 3U cPCI 47-pin power backplane for one power module
cBP-3062A	PICMG® 2.11 3U cPCI 47-pin power backplane for two power modules
cBP-3063	PICMG® 2.11 3U cPCI 47-pin power backplane for three power modules
cBP-3064	PICMG® 2.11 3U cPCI 47-pin power backplane for four power modules

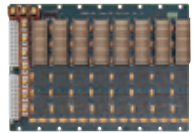
cBP-320X[R] Series



cBP-3208 Front View



cBP-3208R Front View



cBP-3208R Rear View

3U CompactPCI® 32-bit Backplanes with Optional Rear I/O

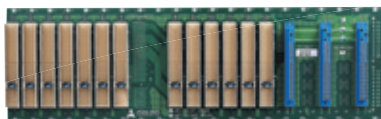
Specifications

Model Name	cBP-3204[R]	cBP-3206[R]	cBP-3208[R]
PICMG®	2.0 R3.0, 2.1 R2.0		
Dimensions (mm, W x H)	100.7 x 128.7	141.3 x 128.7	181.9 x 128.7
Segment	One		
cPCI Bus	32-bit/33 MHz		
System Slot	Right-hand side		
System Slot Rear I/O	P2 rear I/O with AB-type shroud		
Peripheral Slot	3	5	7
Peripheral Slot Rear I/O	cBP-3204, 3206 and 3208: No rear I/O cBP-3204R, 3206R, 3208R: P2 rear I/O with AB-type shroud		
V (I/O)	3.3V or 5V selectable, factory default is 5V		
Power Connectors	ATX connector x 2, DC screw terminals		
Other Connectors	INH#, Reset, PWR_FAL#		

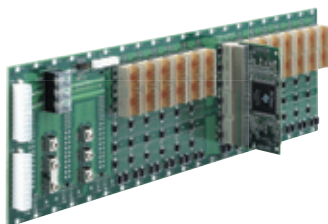
Ordering Information

Model Number	Description/Configuration
cBP-3204	3U cPCI 32-bit 4-slot backplane
cBP-3204R	3U cPCI 32-bit 4-slot backplane with rear I/O
cBP-3206	3U cPCI 32-bit 6-slot backplane
cBP-3206R	3U cPCI 32-bit 6-slot backplane with rear I/O
cBP-3208	3U cPCI 32-bit 8-slot backplane
cBP-3208R	3U cPCI 32-bit 8-slot backplane with rear I/O

cBP-3213[R]



cBP-3213R



cBP-3213R with cBP-R3213 Rear View

3U CompactPCI® 32-bit 13-slot Backplanes with Optional Rear I/O

Specifications

Model Name	cBP-3213	cBP-3213R
PICMG®	2.0 R3.0, 2.1 R2.0, 2.11 R1.0	
Dimensions	425.7 x 128.7 (mm, W x H)	
Segment	1	
cPCI Bus	32-bit/33 MHz	
System Slot	Right-hand side	
System Slot Rear I/O	P2 rear I/O with AB-type shroud	
Peripheral Slot	12 slots (cBP-R3213 bridge board is required)	
Peripheral Slot Rear I/O	None	P2 rear I/O with AB-type shroud
Bridge	cBP-R3213 rear bridge board, TI2050 P2P bridge	
Power Socket	PICMG® 2.11 47-pin socket x 3 (for 8HP power module)	
V (I/O)	3.3 V or 5 V selectable, factory default is 5 V	
Power Connectors	AC/DC input, ATX connector x 2, DC screw terminals	
Other Connectors	INH#, Reset, PWR_FAL#, Voltage LEDs	
Chassis or Sub-systems	cPCIS-1103, 2633 series	cPCIS-1103R, 2633R
Recommended System Board	cPCI- 3700A, 3840	

Ordering Information

Model Number	Description/Configuration
cBP-3213	3U cPCI 32-bit 13-slot Backplane with 3 PSU sockets
cBP-3213R	3U cPCI 32-bit 13-slot Backplane with 3 PSU sockets and rear I/O
cBP-R3213	Removable rear bridge board

Note: cBP-R3213 is sold separately from cBP-3213 or cBP-3213R.

cPS-H325/AC, H325/48, H325/24 PICMG® 2.11 47-Pin Hot-Swap Redundant 3U CompactPCI® 8HP 250 W Power Module



Features

- Compact size, 4U high enclosure for 3U CompactPCI® cards
- Side handle design for portable applications
- Stand feet on bottom side for desktop applications
- Versatile wall-mount application with mounting kit
- Standard PICMG® 2.11 47-Pin modular power supply
- Bottom-access removable filter for easy maintenance
- Built-in efficient cooling system

Specifications

Model Name	cPS-H325/AC	cPS-H325/48	cPS-H325/24
PICMG® Standards	PICMG® 2.11 CompactPCI® Power Interface Compliant		
Form Factor	3U cPCI (100 x 160mm), 2-slot (8HP) wide		
Input Voltage	100-254 ± 10% VAC	36-72 VDC	18-36 VDC
Input Frequency	50-60 ±5% Hz	DC	DC
Input Current	2.8 A @ 226 VAC/ 1.4 A @ 230 VAC	7A @ 48 VDC	14A @ 24 VDC
Inrush Current	<30 A @ 230 VAC	N/A	N/A
Power Factor (PFC, only for AC)	Correction Typical 0.95-0.97 Meets Harmonic Correction IEC1000-3-2		
Output Voltage/Current	5V: Typ. 25.0A, Max. 33.0A 3.3V: Typ. 18.0A, Max. 33.0A +12V: Typ. 5.0A, Max. 5.5A -12V: Typ. 0.5A, Max. 1A 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	0.5 A @ +5 V Minimum Load		
Output Wattage	Typical 250W continuous, maximum 300 W peak output		
Line Regulation	Typical 0.1%		
Load Regulation	Typical ± 1-2%		
Ripple	50 mV @ +5 V and 3.3 V outputs 120 mV @ +12 V and -12 V outputs		
Hold-up Time	5 ms after power fail signal		
Efficiency	Typical 78-79%		
Output voltage sense	Available at 5V, 3.3V, and +12V outputs and current sharing		
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 Protections	Available at [DEG#] pin 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 <Green LED> [POWER] means valid input voltage <Amber LED> [FAULT] means a critical fault
Status LED	
Earth Leakage	<0.5 mA @ 230 VAC <0.5 mA @ 48 VDC <0.5 mA @ 24 VDC
Operating Temp.	0° to 70°C (0° to +50°C at full load with specified air flow. Derates linearly to 50% at +70°C.)
Storage Temp.	-40° to +85°C
Humidity	5% to 95% 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	Min. 20 CFM is required for typical full rating power
Certifications	IEC950, EN 55022, FCC Class A, IEC60950 Class I

Ordering Information

Model Number	Description/Configuration
cPS-H325/AC	PICMG® 47-pin hot-swap redundant 3U CompactPCI® 8HP 250 W power module with universal AC Input
cPS-H325/48	PICMG® 2.11 47-pin hot-swap redundant 3U CompactPCI® 8HP 250 W power module with 36-72VDC Input
cPS-H325/24	PICMG® 2.11 47-pin hot-swap redundant 3U CompactPCI® 8HP 250 W power module with 18-36VDC Input