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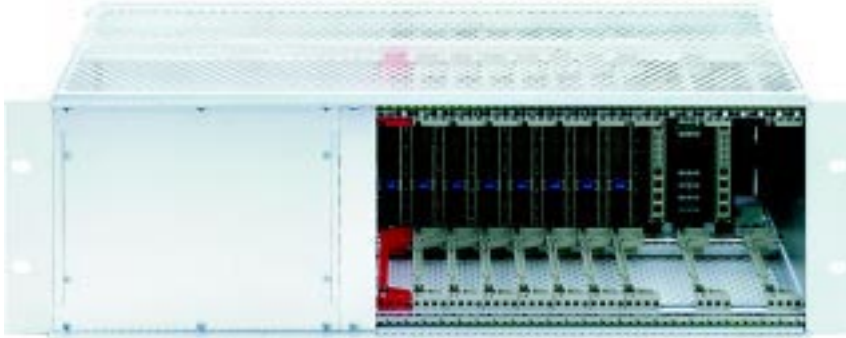
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# ZT 6210

*3U Rack Mount Platform With  
Eight-Slot Backplane*



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## WHAT'S IN THIS MANUAL?

This manual describes the operation and use of the ZT 6210 3U Rack Mount Platform With Eight-Slot Backplane. For a thorough discussion of the backplane's capabilities, refer to the *ZT 4301 3U Hot Swap Backplane With Redundant Power Supply Support* manual.

The following outline summarizes the focus of each chapter in this manual.

**Chapter 1. "[Introduction](#)"** offers an overview of the ZT 6210. It includes a product definition, a list of product features, and a brief description of the product's main functional considerations. This chapter is most useful to those who wish to compare the features of the ZT 6210 to the needs of a specific application.

**Chapter 2. "[Getting Started](#)"** summarizes the information you need to make the ZT 6210 operational. Topics include installation, setup, and installing accessories. You should read this chapter before using the product.

**Appendix A. "[Specifications](#)"** presents the electrical, mechanical, and environmental specifications of the ZT 6210 platform.

**Appendix B. "[Customer Support](#)"** offers technical support information and instructions on returning the ZT 6210 if service is necessary.

## CHAPTER 1. INTRODUCTION

This chapter offers an overview of the ZT 6210. It includes a product definition, a list of product features, and a brief discussion of the product's main functional considerations. This chapter is useful for comparing the features of the ZT 6210 platform to the needs of a specific application.

### PRODUCT DEFINITION

The ZT 6210 is a 3U platform with an eight-slot CompactPCI® backplane. Accessible from the front of the platform is a dedicated CPU slot, seven 32-bit peripheral slots and slots for two Hot Swappable load sharing power supplies. For simplified system cabling, the rear of the platform supports 3U IEEE 1101.11-style rear transition boards.

The ZT 6210 contains a high-performance ZT 4301 CompactPCI backplane. For complete backplane specifications, see the **ZT 4301 3U Hot Swap Backplane With Redundant Power Supply Support** manual.

The platform is designed to withstand the shock and vibration levels common to most industrial environments. The ZT 6210 can operate in the extended temperature range from -40°C to +85°C (individual boards and power supplies may have different operating requirements).

### FEATURES

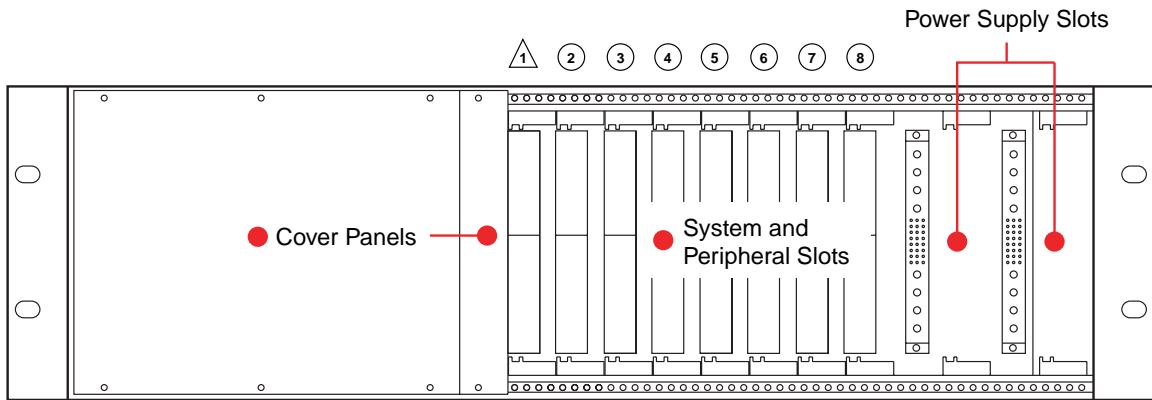
- 3U, 19" EIA rack mounting format
- Seven Hot Swap CompactPCI slots
- Rear panel I/O on peripheral slots (through P2 connectors)
- Supports 3.3V or 5V CompactPCI boards
- Supports IEEE 1101.11-style rear transition boards
- Accommodates up to two redundant, Hot Swap power supplies
- AC or DC power input options

### FUNCTIONAL CONSIDERATIONS

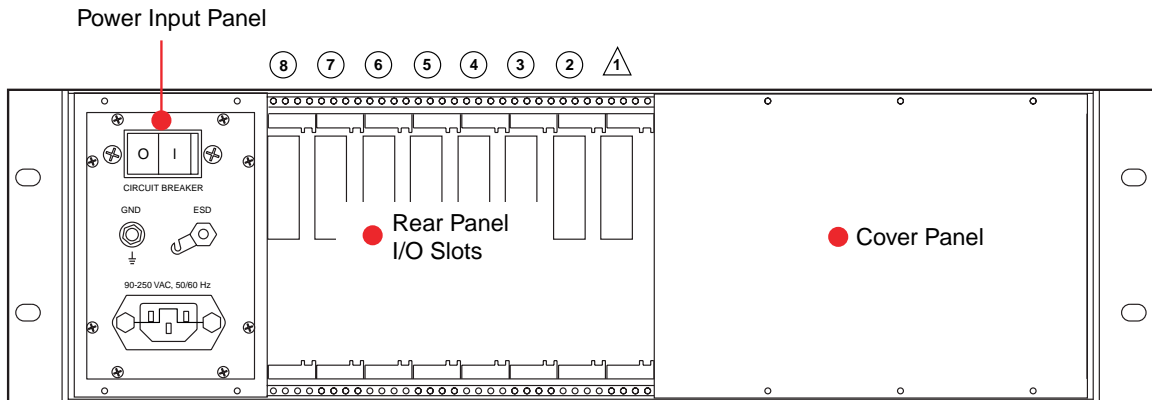
The following topics briefly discuss the key functional areas of the ZT 6210 platform. Refer to "[Appendix A. Specifications](#)" for more detailed discussions of mechanical, electrical, and environmental parameters.

**Modularity**

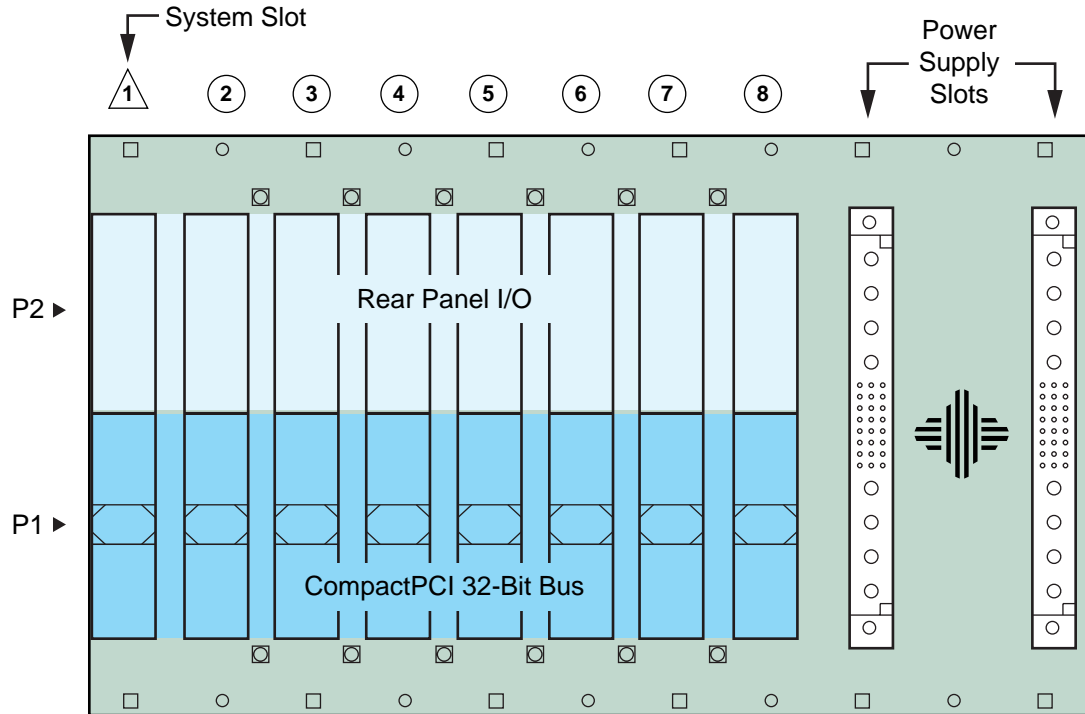
The ZT 6210 features a standard 3U chassis and a high-performance CompactPCI backplane. The front of the platform provides eight 3U CompactPCI slots and accommodations for up to two, hot-swap or standard, 3U power supplies. Across the front of the platform, slots 2-8 are configured for 32-bit CompactPCI peripheral boards. Slot 1 is dedicated to a system CPU board (the Ziatech ZT 6501 or other compliant CPU). In addition to the system and peripheral slots, accommodations are provided at the rear of the platform for IEEE 1101.11 80mm-deep plug-in transition boards.



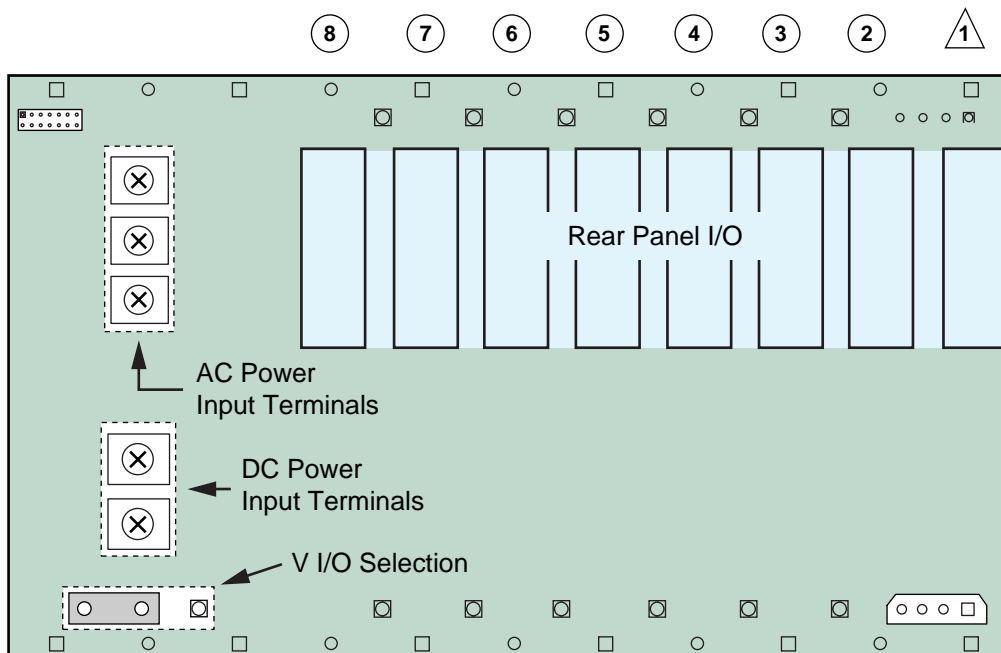
*ZT 6210 Platform (Front)*



*ZT 6210 Platform (Rear)*



*ZT 6210 Backplane Area (Front)*



*ZT 6210 Backplane Area (Rear)*

## Mechanical Considerations

The ZT 6210 is a 19" EIA rack mount platform compliant with the 3U Eurorack height standard. The platform accepts front mounted power supplies and IEEE 1101.10 compliant boards, and rear mounted IEEE 1101.11 transition boards. The open design allows for efficient cooling and easy access to components.

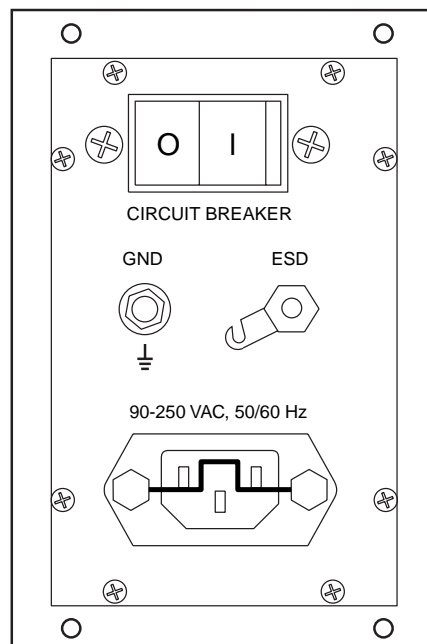
## Electrical Considerations

The ZT 6210 can be configured with either an AC or DC [power input panel](#). The power input panel configuration must match the power supply input voltage (AC or DC). The power input panel incorporates a system on/off switch, with re-settable circuit breaker, a ground terminal (FGND), and an ESD jack.

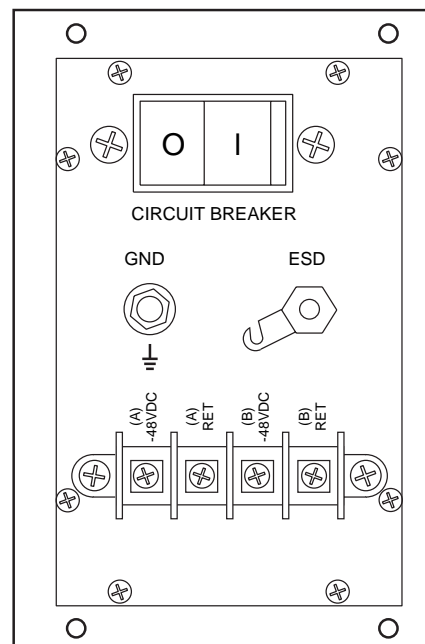
Up to two 3U x 8HP power supplies can be plugged directly into the backplane through DIN 41612 Type M connectors. Additionally, 12 stud points provide auxiliary power I/O across the backplane slots. Solid copper bus bars of various lengths are available to gang together stud points for high current needs. Contact [Ziatech](#) for bus bar specifications and ordering information.

The ZT 6210's backplane is jumper configurable for 3.3V or 5V V(I/O) CompactPCI device support. As shipped from the factory, the backplane is jumpered for 5V operation and the CompactPCI connector mating keys allow only 5V boards to be installed.

AC Power Input Panel  
(P1 option)



DC Power Input Panel  
(P2 option)



*Power Input Panel*



## **Environmental Considerations**

The ZT 6210 platform is designed to withstand the shock and vibration levels found in most industrial environments. The ZT 6210 platform can operate in the extended temperature range of -40° C to +85° C. Individual boards and power supply modules have their own operating temperature ratings. To keep device temperatures within specified operating ranges, forced-air cooling will be necessary for most applications. Refer to component specific operating manuals for details. See "[Environmental Specifications](#)" in Appendix A for more detailed information.

## CHAPTER 2. GETTING STARTED

This chapter summarizes the information needed to make the ZT 6210 operational and should be read prior to using the product.

### UNPACKING

Please check the shipping carton for damage. If the shipping carton and contents are damaged, immediately notify the carrier and Ziatech for an insurance settlement. Retain the shipping carton and packing material for inspection by the carrier. A Return Material Authorization (RMA) number is required to return any product to Ziatech. The topic "[Returning for Service](#)" in Appendix B explains the procedure for obtaining an RMA number from Ziatech.

### WHAT'S IN THE BOX?

Check the shipping container for the following contents:

- The ZT 6210 platform

#### **IMPORTANT:**

Special packing material has been designed for protection of the system during shipping. It is critical that you save the packing material after unpacking the enclosure. Shipping the unit without the original packing material will automatically void the warranty. Replacement packing material may be purchased from [Ziatech](#).

### INSTALLATION

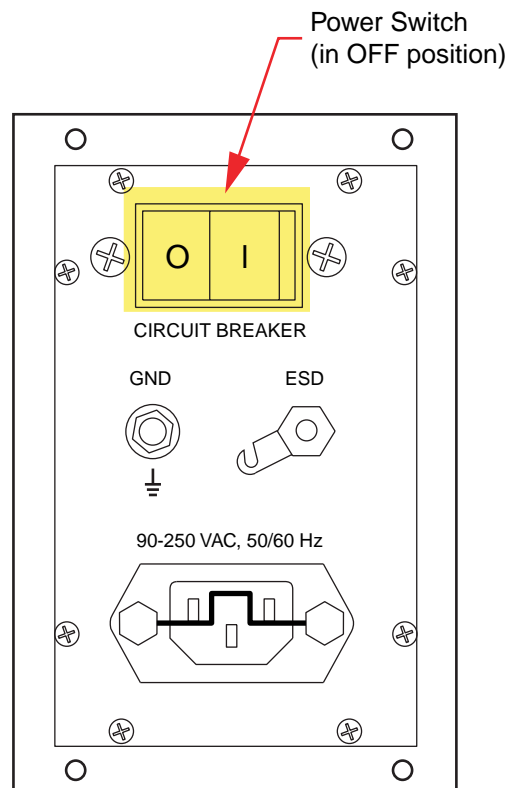
The ZT 6210 system is designed to fit standard 19" EIA racks. Mounting flanges are attached to the front of the enclosure to facilitate front-mounting. The following instructions are for rack-mounting the ZT 6210 enclosure. The remaining topics in this chapter address setup and installing individual components and accessories in the ZT 6210.

#### **To perform a typical installation:**

Review the "[Setup](#)" section in this chapter.

- Locate a position within the rack that does not interfere with other equipment and where the ZT 6210's mounting holes line up with the rack's mounting holes. Consideration should be given to operating power level and the possible need for supplemental cooling.
- Bolt the enclosure to the rack (mounting hardware is not provided).

- Be sure the [power switch](#) on the power input panel is OFF. Connect the necessary power cable(s) to the [power input panel](#) at the rear of the enclosure.
- Insert the desired board level components and power supplies into the enclosure. See the following topics in this chapter and refer to product specific documentation for more complete installation and interaction details.
- Connect the desired I/O devices.
- Power up the system (switch at back of enclosure on power input panel) and configure.



*Power Switch*

### Setup

The ZT 6210 requires minimal setup prior to use. The following topics address slot assignments, setting V I/O, grounding the system, and installing power cables. See the **ZT 4301 3U Hot Swap Backplane With Redundant Power Supply Support** manual for more information on setup options.

## Slot Assignments

The ZT 6210's backplane supports geographic addressing; each slot is individually addressed to match its slot number.

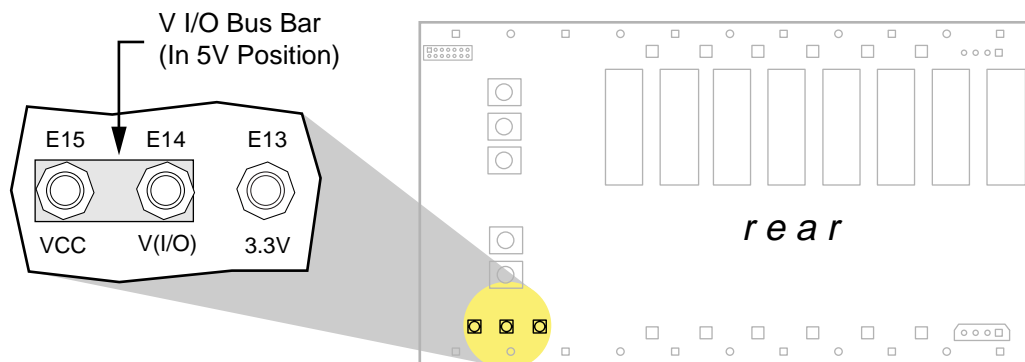
To support various CPU options, the backplane configuration can be fully Hot Swap-compliant or compatible with pre-Hot Swap CPUs. The Hot Swap-compliant configuration buses individual clocks from the System Slot (Slot 1) to each of the peripheral slots (Slots 2-8). The pre-Hot Swap configuration is compatible with shared clock CPUs. Clock signals are shared between peripheral slots 2 and 3, and 4 and 5. The remaining peripheral slots (6, 7, and 8) are assigned individual clocks.

Refer to the *CompactPCI Specification, PICMG 2.0, version 2.1* and the **ZT 4301 3U Hot Swap Backplane With Redundant Power Supply Support** manual for additional information on slot addressing and signal assignment.

## Setting V I/O

The ZT 6210 incorporates a "universal" backplane, allowing V I/O to be set at either 5V or 3.3V. A [jumper bus bar](#) at the rear of the backplane controls V I/O provided to the CompactPCI slots. Connect E14 to E15 for +5V operation, or E14 to E13 for +3.3V operation. The factory default setting is for 5V operation (terminals E14 and E15 are jumpered).

Be aware that CompactPCI board connectors are typically keyed for use in either 5V or 3.3V systems. A 3.3V board (yellow keyed connector) will not insert into a 5V backplane (blue keyed connector). Since the ZT 6210's backplane is configured for use with 5V boards, the jumper [and](#) the CompactPCI keys must be changed for 3.3V operation.



*V I/O Selection*

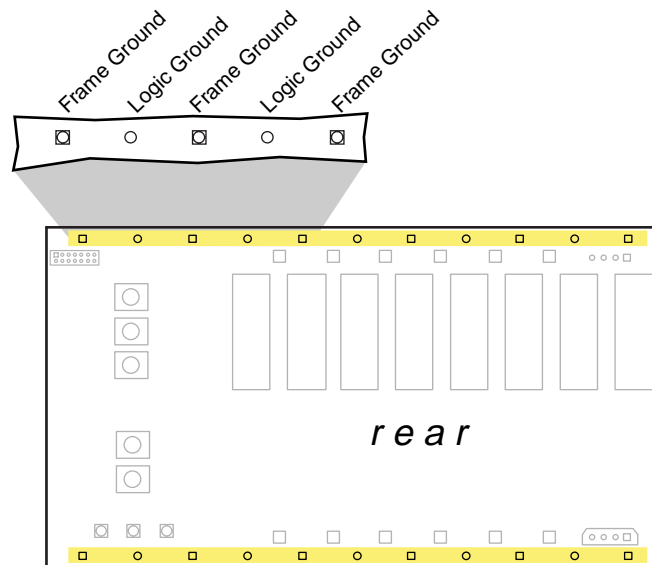
## Grounding The System

Along the top and bottom of the ZT 6210's backplane are 22, 0.106" diameter, grounded mounting holes, each surrounded by either a square or round pad. As shown in the ["Mounting Holes"](#) illustration, the holes are arranged in an alternating pattern (square,

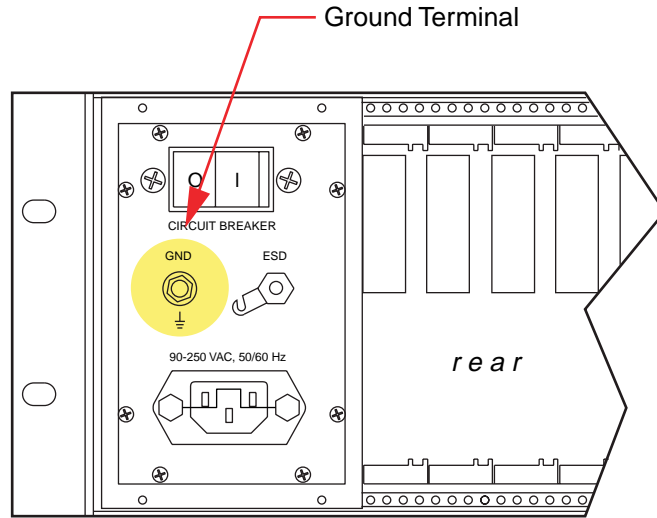
round, square, round, etc.) and provide connection for either frame ground (square pad) or logic ground (round pad). This arrangement allows uniform ground access and the ability to isolate frame ground and logic ground if desired. **To isolate frame and logic grounds, install mounting screws only in mounting holes with square pads.**

The ZT 6210 platform provides for an attachment to building ground on the back of the enclosure. Attach a grounded strap or cable to the [ground Terminal](#) on the power input panel to properly ground the system.

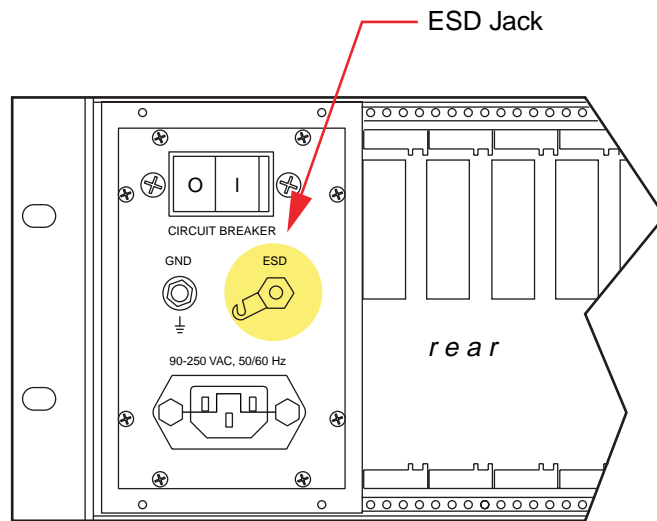
An [ESD jack](#) is provided at the back of the platform, on the power input panel, for use while servicing the system.



*Mounting Holes*



*Ground Terminal*



*ESD Jack*

## Connecting Power Cables

Power is supplied to the ZT 6210 platform through the [power input panel](#) at the rear of the enclosure. The power input panel is configured for either AC or DC input (P1 option is AC, P2 option is DC). The power input panel configuration must match the voltage input configuration of the power supplies intended for use with the system.

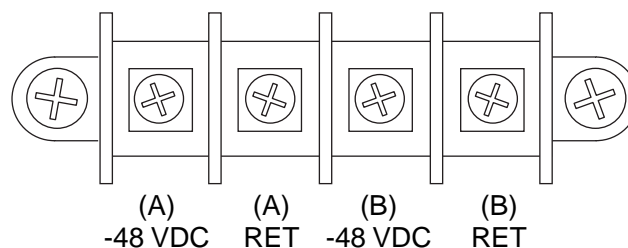
### AC Powered Systems (ZT 6210-P1 Option):

**Caution:** Always use a grounded outlet to supply power to the system. Always use a power cable with a grounded plug, such as the one supplied with the system.

- Verify that the [power switch](#) on the power input panel is OFF.
- Insert the receptacle end of a grounded power cable into the AC plug on the power input panel at the rear of the ZT 6210 enclosure.
- Engage the retention device to secure the power cable.
- Plug the cable into a grounded wall outlet.
- Perform any other operations to secure the system before switching ON.

### DC Powered Systems (ZT 6210-P2 Option):

- Verify that the [power switch](#) on the power input panel is OFF.
- Connect the DC supply terminals (spade or ring recommended) to the terminal block on the power input panel. See the "[DC Terminal Block](#)" diagram for correct wiring.
- Connect the DC power source.
- Perform any other operations to secure the system before switching ON.



*DC Terminal Block*

## INSTALLING ACCESSORIES

The ZT 6210 enclosure and backplane can accommodate a wide range of plug-in devices. The following sections discuss the installation of power supplies, CPU boards, and peripherals.

**Caution:** Static electricity can damage electronic components. Wear a wrist strap grounded through the system when servicing system components.

### Installing Power Supplies

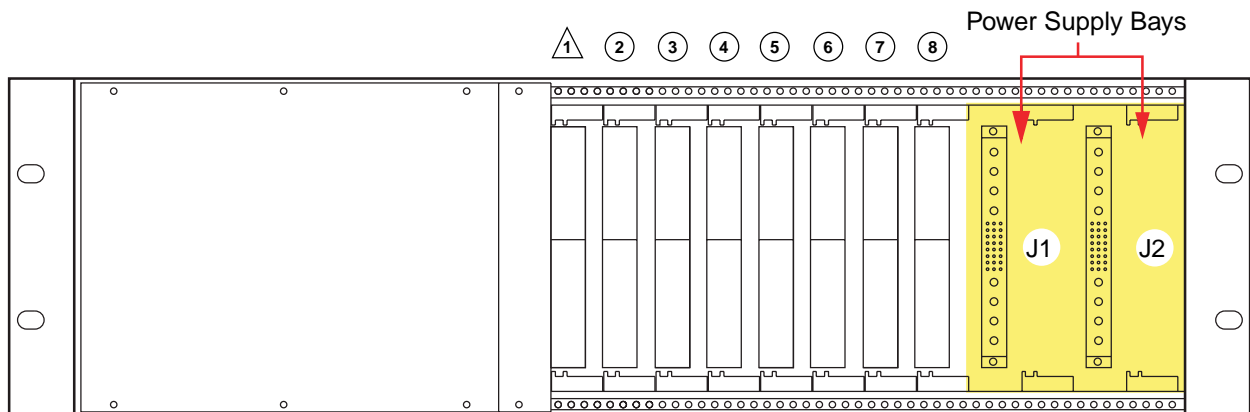
The ZT 6210 accepts up to two hot swap power supplies such as the ZT 6301 (AC input) or ZT 6311 (DC input). These modular power supplies plug directly into the backplane through DIN 41612 Type M connectors. Power supply input voltage configurations (AC or DC) must match the configuration of the ZT 6210's power input panel (AC or DC).

#### To install a power supply:

- Select any empty [power supply bay](#).
- Align the upper and lower rails on the power supply with the upper and lower guides in the bay.
- Slide the power supply in the guides and press firmly to seat the connectors.
- Tighten the four retention screws on the front panel of the power supply.

#### To hot swap a power supply:

- Unscrew the four retention screws on the front of the power supply to be removed.
- Ease the power supply from its backplane connectors and slide it out of the enclosure.
- To install the replacement power supply, follow the procedure outlined above for installing a power supply.



*Power Supply Location*



## Installing CompactPCI CPU Boards

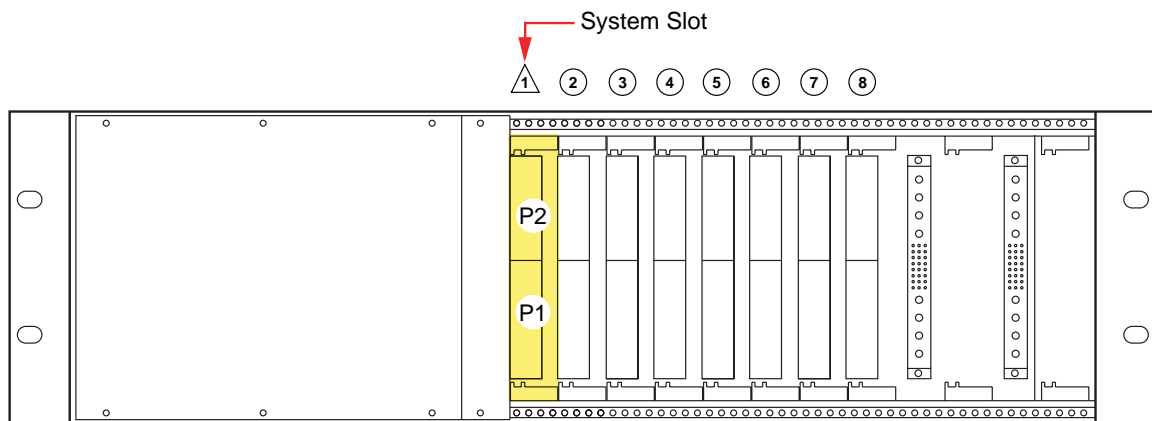
Among the eight slots available across the ZT 6210's backplane, Slot 1 is reserved as the [System Slot](#). The System Slot is compatible with the Ziatech ZT 6501 or other CompactPCI-compliant 3U CPUs.

For more detailed information on system interaction and installing a specific board, refer to the board's documentation.

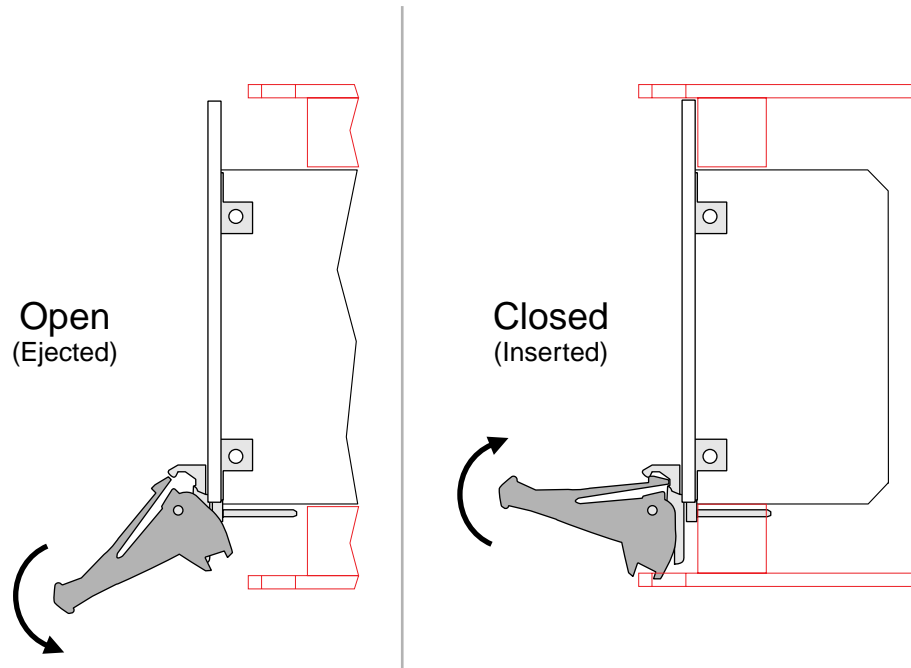
**Caution:** Static electricity can damage electronic components. Wear a wrist strap grounded through the system when servicing system components.

### To install a CPU board:

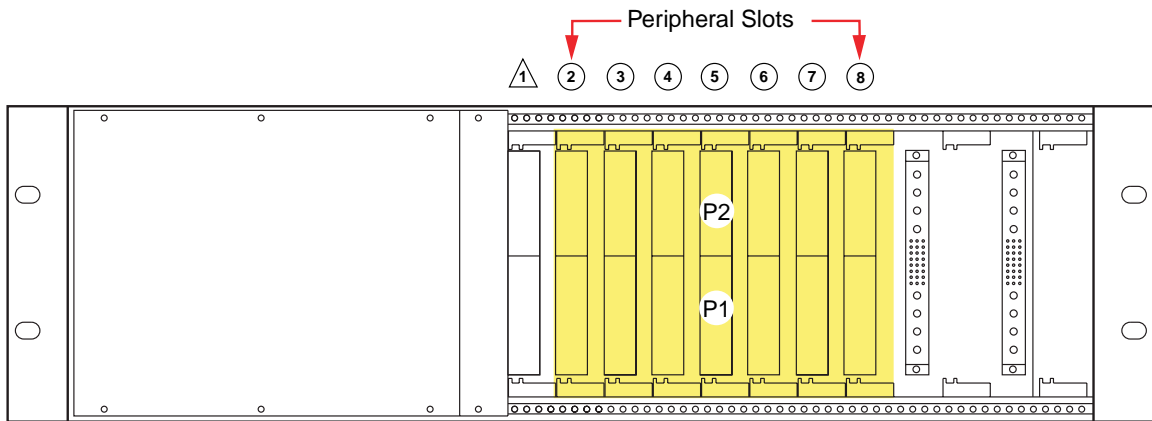
- Be sure that the [system power](#) is OFF (unless installing hot swap capable boards).
- Prepare the CPU board by opening any [injector/ejector mechanisms](#).
- Locate Slot 1 in the enclosure; Slot 1 is distinguished by its red card guides.
- Align the upper and lower sides of the CPU board with the upper and lower card guides in Slot 1.
- Slide the CPU board in the guides until the injector/ejector mechanism engages the retention bar at the bottom of the enclosure.
- Simultaneously push in the CPU board and rotate the injector/ejector mechanism to its closed position (rotate upward) to complete the insertion.



*System Slot Location*



*Injector/Ejector Operation*



*Peripheral Slot Location*

### Installing CompactPCI Peripheral Boards

[Slots 2-8](#) on the ZT 6210's backplane are available for 32-bit CompactPCI peripheral boards. The P1 connectors at Slots 2-8 provide 32-bit CompactPCI busing. The P2 connectors on each of these slots are configured for rear panel I/O.

For more detailed information on system interaction and installing a specific board, refer to the board's documentation.

**Caution:** Static electricity can damage electronic components. Wear a wrist strap grounded through the system when servicing system components.

#### **To install a peripheral board:**

- Be sure that the [system power](#) is OFF (unless installing hot swap capable boards).
- Prepare the peripheral board by opening any [injector/ejector mechanisms](#).
- Align the upper and lower sides of the peripheral board with the upper and lower card guides in the slot.
- Slide the board in the card guides until the injector/ejector mechanism engages the retention bar at the bottom of the enclosure.
- Simultaneously push in the board and rotate the injector/ejector mechanism to its closed position (rotate upward) to complete the insertion.

### Installing Rear Panel I/O Boards

The [rear of the ZT 6210's backplane](#) provides accommodations for IEEE 1101.11 compliant rear transition boards. The rear transition board used in a slot must be compatible with the board installed in the corresponding front-side slot. The P2 connectors across the backplane are configured for rear panel I/O (RPIO).

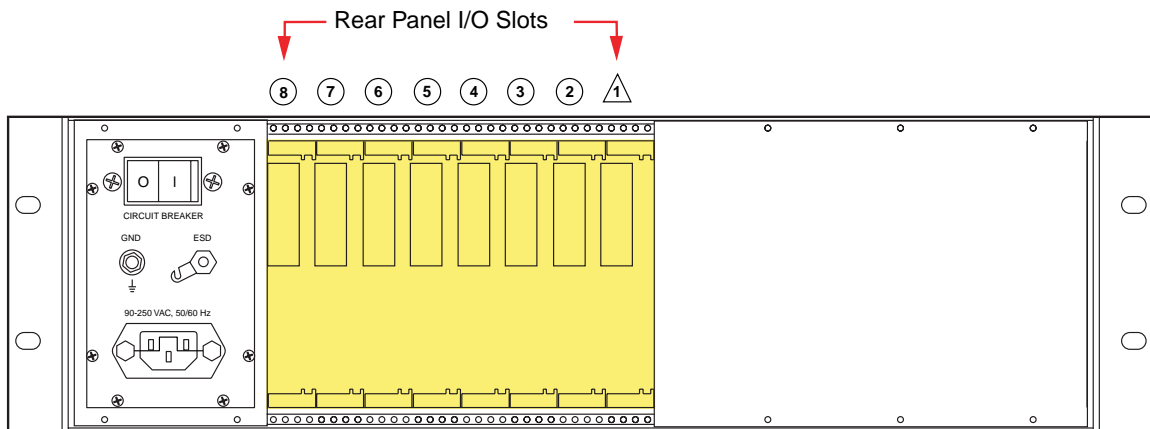
For more detailed information on system interaction and installing a specific board, refer to the board's documentation.

**Caution:** Static electricity can damage electronic components. Wear a wrist strap grounded through the system when servicing system components.

#### **To install an RPIO board:**

- Be sure that the [system power](#) is OFF (unless installing hot swap capable boards).
- Prepare the RPIO board by opening any [injector/ejector mechanisms](#).

- Align the upper and lower sides of the RPIO board with the upper and lower card guides in the slot.
- Being careful to properly align the board connectors with the backplane connectors, slide the board in the card guides until the injector/ejector mechanism engages the retention bar at the bottom of the enclosure.
- Simultaneously push in the board and rotate the injector/ejector mechanism to its closed position (rotate upward) to complete the insertion.



*Rear Panel I/O Location*

## APPENDIX A. SPECIFICATIONS

This appendix presents the electrical, environmental, and mechanical specifications of the ZT 6210 platform.

### ELECTRICAL SPECIFICATIONS

The ZT 6210's configuration options (P1 or P2) allow either an AC or DC [power input panel](#).

**AC input voltage:** 90-264 VAC, 47/63 Hz

**DC input voltage:** 36-72 VDC

The ZT 6210 is electrically compatible with the AC input ZT 6301 power supply (ZT 6210-P1 configuration) or DC input ZT 6311 power supply (ZT 6210-P2 configuration). Other CompactPCI-compliant power supplies can be used (consult the power supply manufacturer for compatibility details).

The ZT 6210 incorporates a universal backplane and can be jumpered to provide either 5V or 3.3V to the CompactPCI slots. Connect E14 to E15 for +5V, or E14 to E13 for +3.3V. See the "[Setting V I/O](#)" topic in Chapter 2 for information on setting V I/O.

### ENVIRONMENTAL SPECIFICATIONS

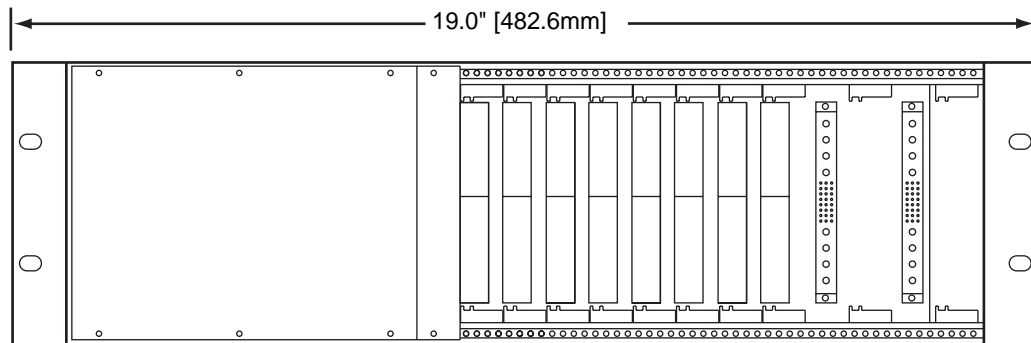
The ZT 6210 platform is designed for harsh industrial environments. The platform features sturdy aluminum construction with a corrosion resistant finish.

- Operating Temperature: -40° C to +85° C
- Storage Temperature: -55° C to +125° C
- Non-Condensing Relative Humidity: 5% to 95% at 40° C
- Non-Operating Shock: 30 g for 6 ms
- Operating Shock: 15 g for 11 ms
- Non-Operating Vibration: 5 to 200 Hz at 0.35 mm (5 g)
- Operating Vibration: 5 to 200 Hz at 0.35 mm (5 g)

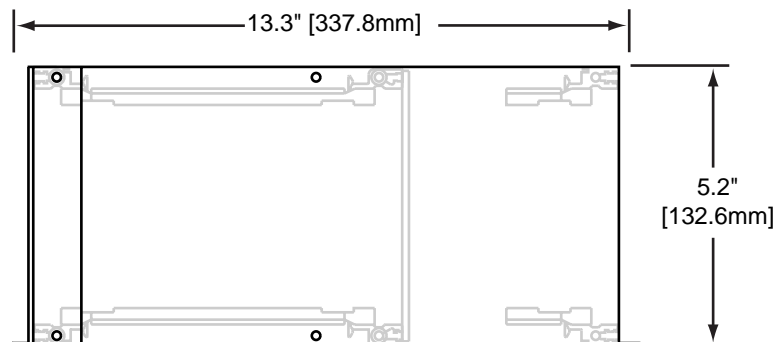
## MECHANICAL SPECIFICATIONS

The ZT 6210 is a 3U, eight-slot platform designed to fit standard 19" EIA racks. Mounting flanges are provided for front mounting within a rack. The platform height conforms to the Eurack 3U standard of 5.2" (132.6mm). Overall depth, not including injector/ejector hardware, is 13.3" (337.8mm). All backplane board slots are located on 0.8" (20.32mm) centers. See the "[ZT 6210 Dimensions](#)" illustration for dimensional information.

The ZT 6210 accommodates 3U IEEE 1101.10-compliant CompactPCI boards and 3U IEEE1101.11-compliant rear transition boards. The rear transition boards allow I/O connection to the rear of the enclosure using 80mm deep, plug-in boards. The following topics provides external dimensions and connector information for the ZT 6210 platform.



Front View



Side View

*ZT 6210 Dimensions*

## APPENDIX B. CUSTOMER SUPPORT

This appendix offers technical assistance information for this product, and information on returning a Ziatech product for service.

### TECHNICAL/SALES ASSISTANCE

If you have a technical question, please call Ziatech's Customer Support Service at the number below, or e-mail our technical support team at [tech\\_support@ziatech.com](mailto:tech_support@ziatech.com). Ziatech also maintains an FTP site located at <ftp.ziatech.com>.

If you have a sales question, please contact your local Ziatech Sales Representative or the Regional Sales Office for your area. Address, telephone and FAX numbers, and additional information is available at Ziatech's website, located at <http://www.ziatech.com>.

#### **Corporate Headquarters**

1050 Southwood Drive  
San Luis Obispo, CA 93401 USA  
Tel (805) 541-0488  
FAX (805) 541-5088

### RELIABILITY

Ziatech has taken extra care in the design of the ZT 6210 in order to ensure reliability. The product was designed in top-down fashion, using the latest in hardware and software design techniques, so that unwanted side effects and unclear interactions between parts of the system are eliminated. Each ZT 6210 has an identification number. Ziatech maintains a lifetime data base on each system and the components used. Any negative trends in reliability are spotted and Ziatech's suppliers are informed and/or changed.

### RETURNING FOR SERVICE

Before returning any of Ziatech's products, phone Ziatech at (805) 541-0488 to obtain a Returned Material Authorization (RMA) number. The following information is needed to expedite the shipment of a replacement:

1. Company name and address for invoice
2. Shipping address and phone number
3. Product I.D. number

4. If possible, the name of a technically qualified individual at your company familiar with the mode of failure on the board

If the unit is out of warranty, service is available at a predesignated service charge. Contact Ziatech for pricing and please supply a purchase order number for invoicing the repair.

Pack the board in **anti-static** material and ship in a sturdy cardboard box with enough packing material to adequately cushion it. ***Any product returned to Ziatech improperly packed will immediately void the warranty for that particular product*** Mark the RMA number clearly on the outside of the box before returning.

### ZIATECH WARRANTY

Ziatech provides a five-year limited warranty to its customers. Ziatech also has an explicit policy regarding the use of Ziatech products in life support systems. These topics are covered in the following sections.

#### Five Year Limited Warranty

Products manufactured by Ziatech Corporation are covered from the date of purchase by a five-year warranty against defects in materials, workmanship, and published specifications applicable to the date of manufacture. During the warranty period, Ziatech will repair or replace, solely at its option, defective units provided they are returned at customer expense to an authorized Ziatech repair facility. Products which have been subjected to misuse, abuse, neglect, alteration, or unauthorized repair, determined at the sole discretion of Ziatech, whether by accident or otherwise, are excluded from warranty. The warranty on fans and disk drives is limited to two years and the warranty on flat panel displays is limited to nine months from date of purchase. Other products and accessories not manufactured by Ziatech are limited to the warranty provided by the original manufacturer. Consumable items (fuses, batteries, etc.) and software are not covered by this warranty.

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### Life Support Policy

Ziatech products are not authorized for use as critical components in life support devices or systems without the express written approval of the president of Ziatech Corporation. As used herein:

1. Life support devices or systems are devices or systems which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be expected to cause the failure of the life support device or system, affect its safety, or limit its effectiveness.

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