Quick Start Guide

CLEARCUBE

A3000
Chassis

The ClearCube A3000 chassis is a centralized 6U-form factor chassis that houses as many as ten A Series blades. A standard 42U 19-inch rack can hold as many as seven A3000 chassis, for a total of 70 blades. Each A3000 chassis is a self-contained unit providing all of the Ethernet and power connections that the PC blades need.

INSTALLING THE A3000 CHASSIS

The A3000 chassis is shipped with four rack-mount brackets that allow universal mounting in standard 19-inch racks or cabinets. Inspect your installation to determine the best method and mounting points for these brackets. When installing an A3000 chassis, be sure to follow the rack or cabinet vendor's installation guidelines.

CAUTION: Never install the A3000 chassis in a two-post rack.

The A3000 chassis draws cool air in through the front of the chassis, and exhausts it out the back. If you plan to use a cabinet enclosure, ensure that you have at least 34 inches (86cm) of interior depth measured from the front of the unit, to accommodate the cabling and air flow that exits from the rear of each chassis. The spacing between the front and back rails can be no more than 30 inches (76cm).

The ClearCube standard Chassis Accessory Kit fits all standard 19" racks and provides a set of front and back mounting brackets, with the necessary hardware. The optional ClearCube Chassis Rapid-Mount (CRM) kit is specially designed to fit ClearCube-supplied cabinets and racks that feature four posts with square mounting holes for snap-in rack nuts. While this is an industry-standard style for mounting hardware, not all third-party racks can accept the CRM kit.

The A3000 chassis is designed to be stacked in a rack with each chassis helping to support the one above to evenly distribute the weight of the blades. When an A3000 chassis is the bottom chassis in a rack, or when there is open space below an A3000 chassis, a reinforcing rack brace should be used on the front of the chassis.
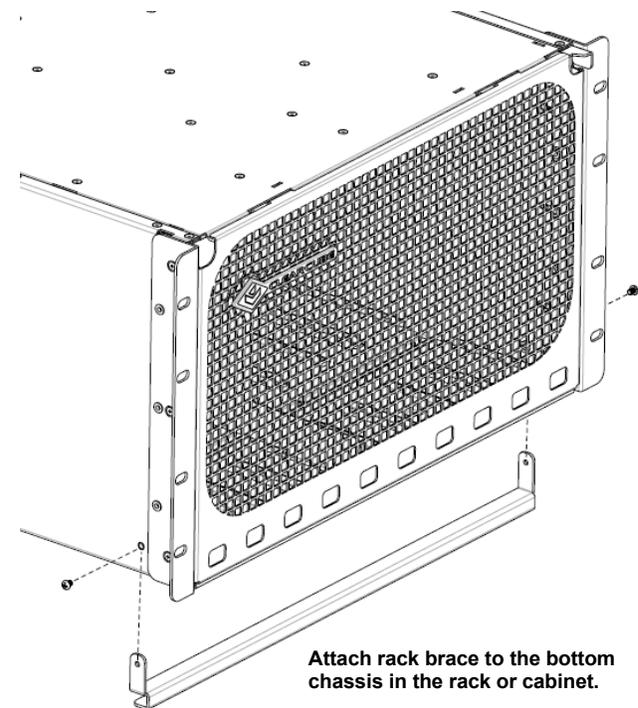
Attach the rack brace to the bottom of any chassis that does not have equipment installed in the rack space immediately below. Do the following:

1. Slip the rack brace flanges onto the chassis behind the rack ears, as shown in the diagram to the left.

2. Secure the brace to the chassis with the two included 8-32 pan head screws passing through the brace.

After installing the A3000 chassis, attach the grounding strap to the ground point on the right-hand side of the AC Tray on the A3000 chassis and to the rack or cabinet in which the A3000 chassis is installed. Ensure that the rack or chassis is properly grounded. See diagram on the next page.

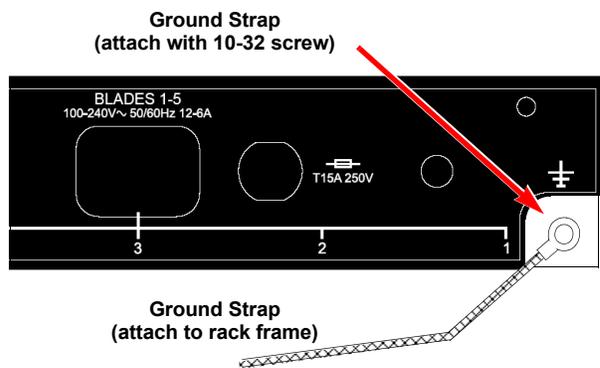**CAUTION:** Never lift the A3000 chassis with blades installed.

The A3000 chassis has two power receptacles, one for each half of the chassis. When only one power cord is connected to the A3000 chassis, only the side of the chassis that is connected to power will supply power to the blades. Use both the AC power cords packaged and supplied with the chassis.

Attach rack brace to the bottom chassis in the rack or cabinet.

Ground Strap
(attach with 10-32 screw)

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BLADES 1-5
100-240V~ 50/60Hz 12-6A

              T15A 250V

    3            2            1
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Ground Strap
(attach to rack frame)

⚠ **CAUTION: High Leakage Current**
Connect chassis earth ground
before supplying AC power
to chassis.

INSTALLING BLADES

A Series blades need to be pre-configured before installing them in the chassis. You need a VGA monitor with a DB-15 mini connector, a keyboard, and a mouse. The keyboard and mouse can be USB or PS/2. An IEC power cord is also required. For more information, please see the *A Series Data Center Products User's Guide* or the *A1010 Quick Start Guide*.

To install an A Series blade in the A3000 chassis, do the following:

1. Remove the front bezel on the chassis by pressing the latch on the right side of the chassis toward the left of the chassis.

2. Tilt the bezel forward, and lift it free from the chassis.

3. Orient each PC blade right-side up, with the D-shaped cutout in the front panel on top, then slowly insert the PC blade into the chassis by lining up the PC blade edges with both the top and bottom guides in the chassis.

4. Slots are numbered from 1 to 10, starting with the left-most slot. There will be a slight resistance to insertion when the rear connector goes into the backplane power connector. When properly seated, the PC blade is flush with the front edge of the bottom guide bracket.

5. After inserting all the blades, replace the bezel.

6. Attach an ethernet cable to each blade. The ethernet cable engages a latch that secures the blade inside the A3000 chassis.

7. Press the power button (the top button) to turn on each blade. When you insert the PC blade, the power does NOT turn on automatically. You must depress the power button on the back of the blade to power it on.

To remove a blade, do the following:

1. Remove the front bezel on the chassis by pressing the latch on the right side of the chassis toward the left of the chassis.

2. Power down the blade using the power switch on the back of the blade.

3. Remove the ethernet cable from the blade. If necessary, push up gently on the latch on the ethernet jack.

4. Pull gently on the blade until it slides out. Use the D-shaped cutout on the front panel as a handle. Be sure to support both ends of the blade when you remove it completely from the chassis.

For more information, please contact ClearCube Technical Support.

WEEE Initiative Notice

This electronic product is recyclable under WEEE (Waste Electrical and Electronic Equipment) guidelines and should not be discarded as regular trash.

Please locate your nearest recycling facility to ensure proper disposal of this product, or contact ClearCube Technology on the web at:
http://support.clearcube.com/
or by email at:
recycle@clearcube.com
for more information.

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