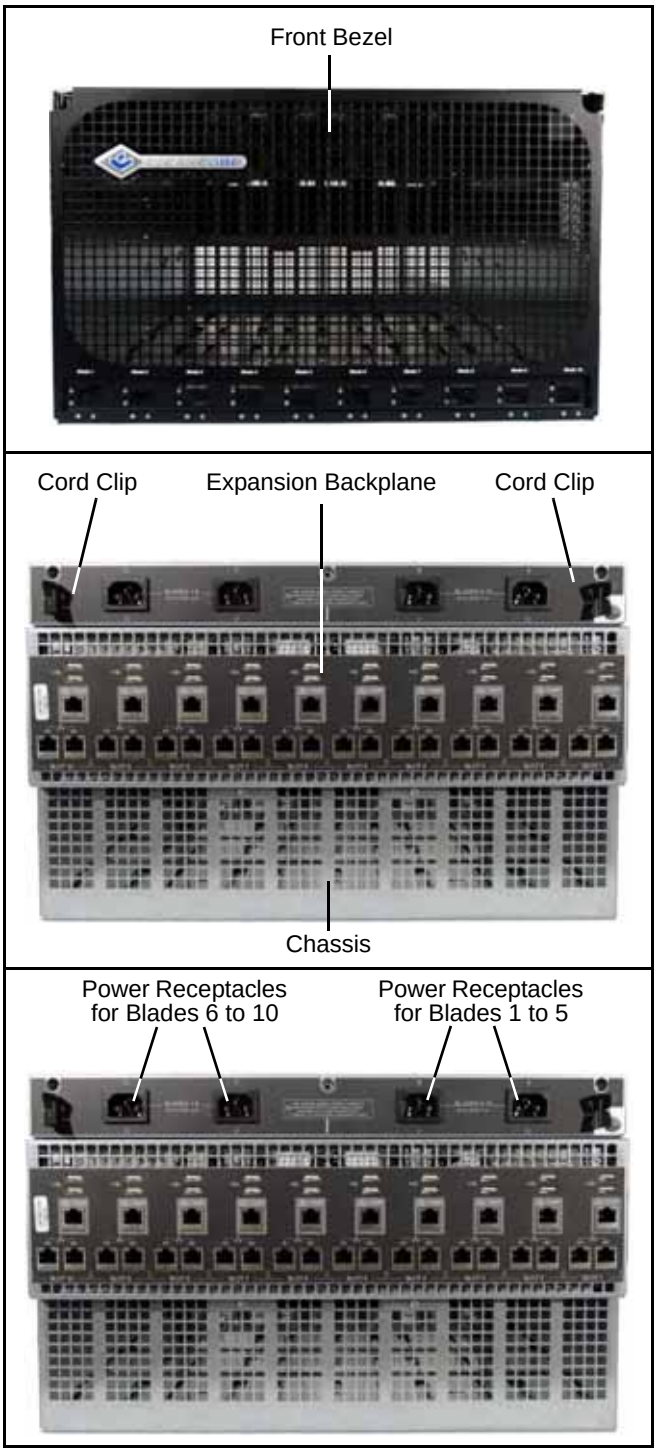
Quick Start Guide

CLEARCUBE

A3100
Chassis



The ClearCube A3100 chassis is a centralized 6U-form factor chassis that houses as many as 10 A1410 blades. A standard 42U 19-inch rack can hold as many as seven A3100 chassis, for a total of 70 blades. Each A3100 chassis contains an expansion backplane to provide all signal connectors for A1410 blades and the chassis's electronic asset tag.

Note: A3100 chassis do not support A1010 blades.

Installing the A3100 Chassis

The A3100 chassis is shipped with an expansion backplane and four rack-mount brackets that allow universal mounting in standard 19-inch racks or cabinets. Inspect your shipment to determine the best method and mounting points for the supplied brackets. When installing an A3100 chassis, be sure to follow the rack or cabinet vendor's installation guidelines.

CAUTION: Never install the A3100 chassis in a two-post rack.

If you use a cabinet enclosure, ensure that you have at least 34 inches (86 cm) of interior depth measured from the front of the enclosure to accommodate the cabling and air flow that exits from the rear of each chassis. If the cabinet enclosure front doors are not vented, add an additional 4 inches (11 cm) in front of the chassis for proper airflow. The spacing between the front and back rails can be no more than 30 inches (76 cm).

The ClearCube standard Chassis Accessory Kit fits all standard 19-inch racks and contains two front brackets, two back mounting brackets, and mounting hardware including cord clips. The optional ClearCube Chassis Rapid-Mount (CRM) kit fits all cabinets that ClearCube provides and fits four-post racks with square mounting holes for snap-in rack nuts.

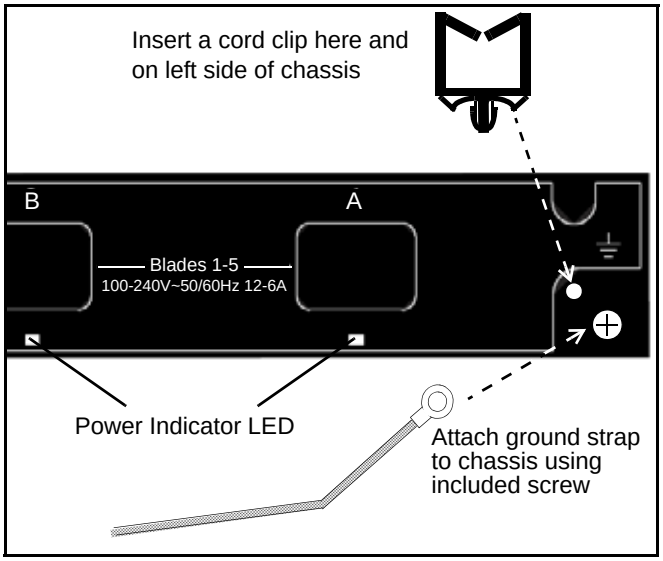
After installing the A3100 chassis, attach the ground strap to the ground point on the right-hand side of the AC tray on the A3100 chassis and to the rack or cabinet in which the A3100 chassis is installed. Ensure that the rack or chassis is properly grounded. See the illustration on the next page.

Note: To screw the ground strap into your rack, insert a snap-in rack nut. A rack nut is not provided in the kit.

Power Receptacles and Failover Power Configuration

To ensure the most reliable operation of the A3100 chassis, ClearCube recommends that all chassis power sources are connected to an uninterruptible power supply (UPS).

CAUTION: If excessive power surges or voltage spikes damage the failover power feature, the damage might not be externally evident. Regulating, uninterruptible power supplies can protect the A3100 from surges and spikes.



CAUTION: High Leakage Current

Connect chassis earth ground before supplying AC power to chassis

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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.

Email	support@clearcube.com
Web site	support.clearcube.com
Toll-free	(866) 652-3400
Phone	(512) 652-3400

The A3100 chassis has four power receptacles:

- Receptacles A and B power blades in slots one through five.
- Receptacles C and D power blades in slots six through ten.

Dual receptacles provide failover power for each set of blades. As shown in the figure on this page, power indicator LEDs are below each power receptacle. LEDs are illuminated when receptables receive power.

ClearCube recommends the following power configurations:

When using the failover power feature

- Receptacles A and C provide power.
- Receptacles B and D provide failover power. ClearCube recommends connecting the cords in receptacles A and C to an alternate power supply, such as a different power circuit or to a UPS.

When not using the failover power feature

Connect power cords to receptacles B and D.

Note: For the most reliable power configuration, ensure that power receptacles A and C are powered by a different power source than receptacles B and D.

Installing A1410 Blades

You can enable A1410 blades for out-of-band management. For information about enabling blades, see *Setup and Installation Guide for A–Series Blade and Chassis* or *A1410 Quick Start Guide*.

CAUTION: Never lift an A3100 chassis with blades installed.

To install an A1410 blade

1. Open the chassis front bezel by pressing in on the latch located on the upper-right side of the chassis.

Note: When pressing the latch to open the front bezel, hold the bezel with one hand to ensure that the bezel does not fall.

2. From the top, pull the bezel toward you and lift it up slightly.

3. To insert a blade, hold the blade so the D-shaped handle in the front panel is upright and is facing you. Align the blade with the top and bottom guides in the chassis and slowly insert the blade into the chassis.

Chassis slots are numbered from 1 to 10. There is a slight resistance when blade signal and power connectors are inserted into backplane connectors. When properly seated, a PC blade is flush with the front edge of the bottom guide bracket.

4. Replace the bezel after inserting your blades.

5. Insert Ethernet cables in active port or ports on the expansion backplane for each blade in the chassis. Active ports are indicated by illuminated LEDs.

6. To power on blade, press right-most button on the front of the blade.

7. Insert the plastic cord clips (included with mounting hardware) in the lower holes on each side of power receptacles, as shown in the figure on this page. Insert power cords in the cord clips.

To remove an A1410 blade

1. Open the chassis front bezel by pressing in on the latch located on the upper-right side of the chassis.

2. Power down the blade by pressing the power button, the right-most button located on the front of the blade.

3. Use the D-shaped handle on the front panel to pull gently on the blade. Support both ends of the blade when removing it from the chassis.