

# Quick Start Guide



## A1410 Memory Upgrade

The A1410 PC blade uses the Intel® Q965 Express chipset and supports DDR2 800, DDR2 667, and DDR2 533 MHz DIMMs for the following memory maximums:

- **8 GB system memory**—using DDR2 667 or 533 DIMMs
- **4 GB system memory**—using DDR2 800 DIMMs

For optimum compatibility, always use memory modules that ClearCube supplies.

### Memory Configurations

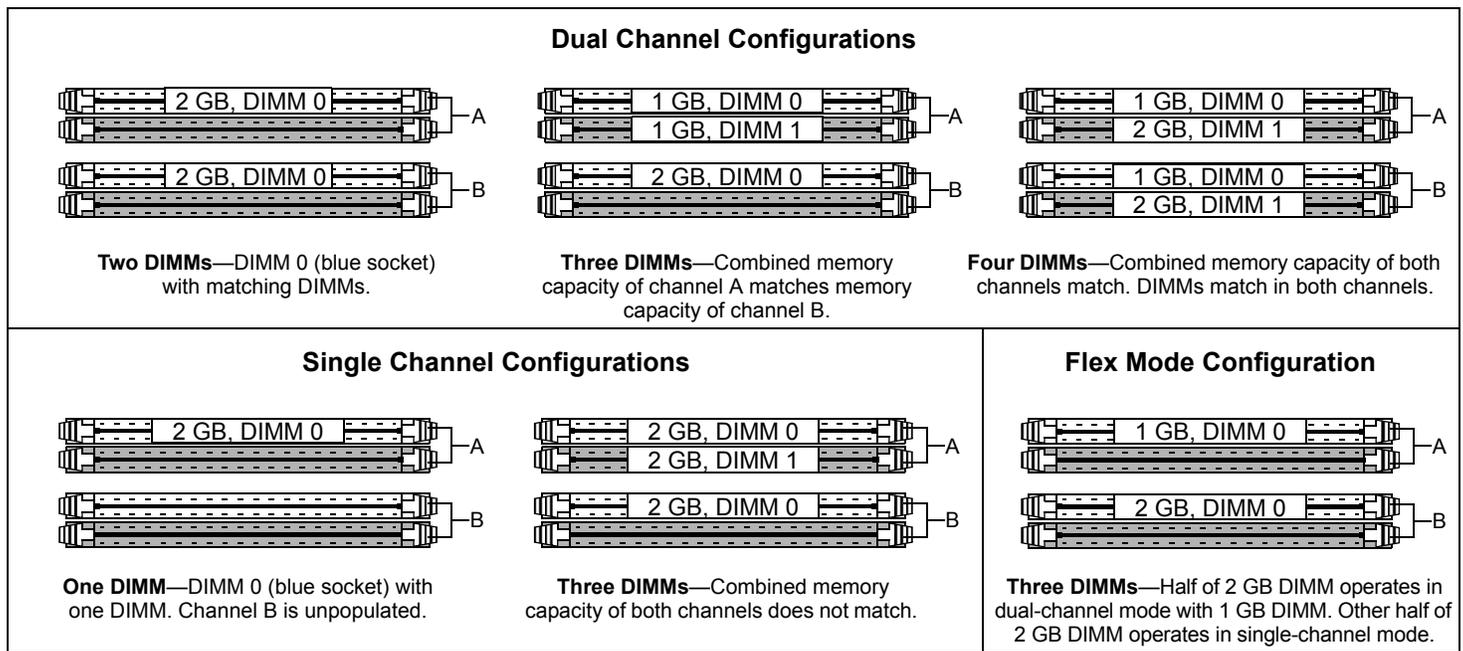
The A1410 contains four memory sockets that accept 240-pin DDR2 SDRAM. A1410 memory sockets are color-coded:

- **Blue sockets**—DIMM 0
- **Black sockets**—DIMM 1

Memory is organized in two pairs of sockets and can operate in Interleaved, Asymmetric, or Flex modes depending on the memory capacity and channel configuration that you use.

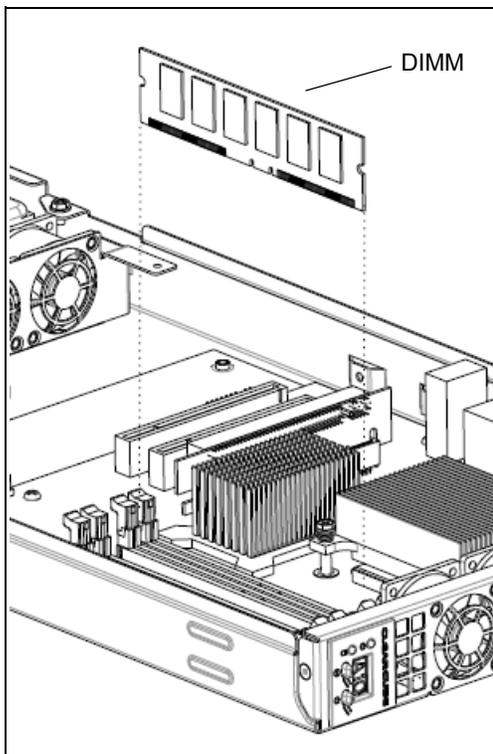
- **Dual channel (Interleaved) mode**—Offers highest throughput. Dual channel mode is enabled when the DIMMs installed in both channels are equal in density, speed, and latency (using DIMMs from the same manufacturer helps to ensure that you are using matching DIMMs). If channels A and B contain DIMMs of different speeds, the slowest speed is used.
- **Single channel (Asymmetric) mode**—Used when a single DIMM is installed or when multiple DIMMs are installed and their memory capacities are unequal. If channels A and B contain DIMMs of different speeds, the slowest speed is used.
- **Flex mode**—Offers multiple areas of dual and single channel operation over the entire DRAM memory. In flex mode:
  - Memory lowest in the system memory map operates in dual channel mode
  - Memory nearest the 8 GB address space limit, if any, operates in single channel mode

You must populate both channels to use flex mode.





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## Removing and Installing Memory

### Removing Memory

1. Remove the blade from the chassis.



**CAUTION:** Some blade surfaces might be hot, especially when the blade has been powered on. Remove and handle the blade with care.

2. Place the blade on a flat surface. Remove the three 6-32 screws on the top cover and remove the top cover.
3. Pull the latches on the sides of the memory socket away from the DIMM to pop the DIMM out of the socket.
4. Hold the DIMM by the edges and remove it from the socket. Store the DIMM according to the manufacturer's instructions.

You can now install new memory.

### Installing Memory

To ensure memory compatibility, use only ClearCube-supplied memory.

**Note:** In any memory configuration, DIMM 0 of channel A must be populated.

1. Ensure that memory is removed as described above.
2. Ensure that the latches on the sides of the memory socket are pushed outward, away from the socket.
3. Hold the DIMM by the edges and gently insert the DIMM into the socket. Gently press down on the top edge of the DIMM until it snaps into place and is fully seated. Ensure that the latches are engaged with the cutouts on the sides of the DIMM.
4. Replace the top cover and replace the three 6-32 screws.

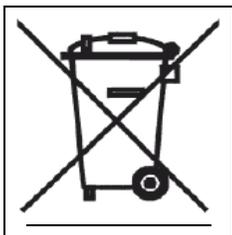
You can now return the blade to the A3100 chassis. See *A-Series Setup and Installation Guide* for more information about the A1410 blade.

### WEEE Disposal Guidelines

In the European Union, this electronic product falls under the European Directive (2002/96/EC) WEEE. When it reaches the end of its useful life or is no longer wanted, it should not be discarded with conventional waste, but disposed of at an approved designated recycling and/or treatment facility.

Laws are different in each country, so please check with your local authorities for proper disposal instructions.

For assistance, contact ClearCube at [recycle@clearcube.com](mailto:recycle@clearcube.com).



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