



Memory Configuration



Single-Processor Configuration

Mac Pro (Mid 2010) comes with a minimum of 3 GB of memory in single-processor configurations, or a minimum of 6 GB memory in dual-processor configurations, installed as 1 GB unbuffered ECC dual inline memory modules (UDIMMs).

DIMMs must fit these specifications:

- PC3-10600E, 1333 MHz, DDR3 SDRAM UDIMMs
- Error-correcting code (ECC)
- 72-bit wide, 240-pin ECC modules
- 36 memory ICs maximum per ECC UDIMM

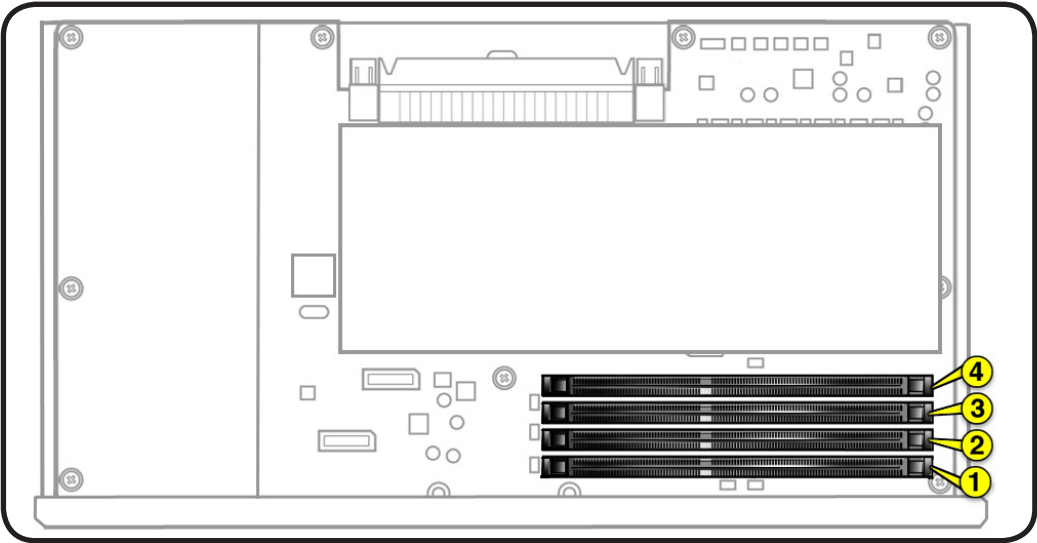
For proper operation of Mac Pro (Mid 2010) computers, Apple recommends using only Apple-approved DIMMs. Refer to GSX for Apple DIMM service part numbers. Memory from older Macintosh computers is not compatible with Mac Pro (Mid 2010).

A quad-core or 6-core Mac Pro (Mid 2010) has one processor and four memory slots. You can install 1 GB, 2 GB, or 4 GB DIMMs for a total of up to 16 GB of memory.

You can install different size DIMMs in Mac Pro (Mid 2010). However, for best performance, Apple recommends you install equal-size DIMMs (all 1 GB, all 2 GB, or all 4 GB) filling the slots in the order listed in this table.

If you have	Fill these slots
Two DIMMs	1 and 2
Three DIMMs	1, 2, and 3
Four DIMMs	1, 2, 3, and 4

See also “[Memory Slot Utility](#)” below.





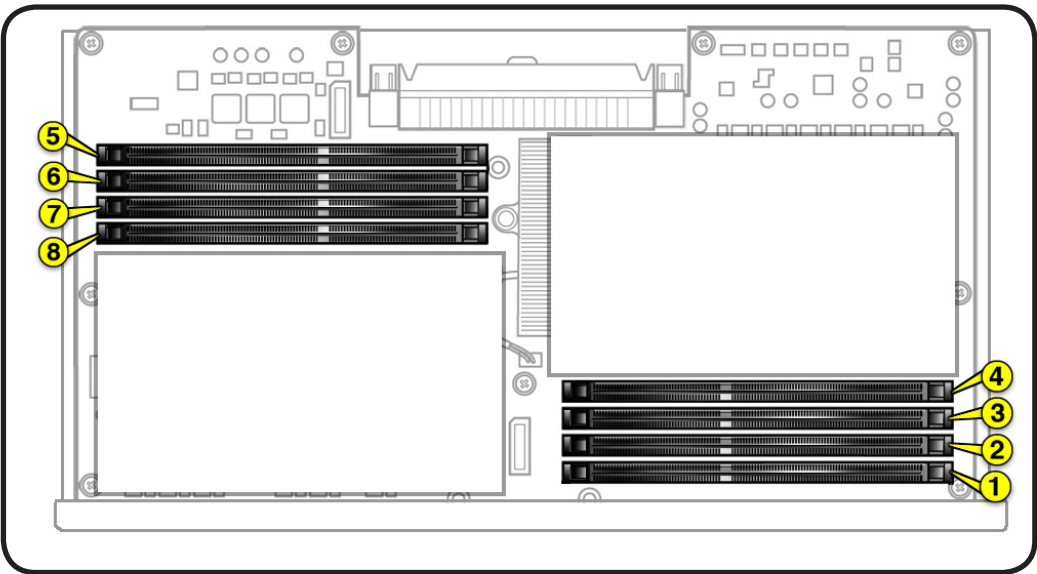
Dual-Processor Configuration

An 8-core or 12-core Mac Pro (Mid 2010) has one processor and eight memory slots. You can install 1 GB, 2 GB, or 4 GB DIMMs for a total of up to 32 GB of memory.

You can install different size DIMMs in Mac Pro (Mid 2010). However, for best performance, Apple recommends you install equal-size DIMMs (all 1 GB, all 2 GB, or all 4 GB) filling the slots in the order listed in this table.

If you have	Fill in these slots
Two DIMMs	1 and 2
Three DIMMs	1, 2, and 3
Four DIMMs	1, 2, and 5, 6
Six DIMMs	1, 2, 3 and 5, 6, 7
Eight DIMMs	1, 2, 3, 4 and 5, 6, 7, 8

See also “[Memory Slot Utility](#)” below.



Memory Slot Utility

If you install different-size DIMMs in single-processor or dual-processor Mac Pro (Mid 2010) computers, follow the order in the tables above. If the DIMM configuration you install doesn't provide optimized performance, the Memory Slot Utility appears on screen and recommends an improved configuration.

To use the Memory Slot Utility again, go to `/System/Library/Core Services`.



Removal

Important: When removing or installing DIMM, be careful of nearby heatsink fins, as they can be sharp. Always handle DIMM only by the edges. Do not touch its connectors or any components.

- 1 Open ejectors on DIMM slot by pushing them out to the sides.
- 2 Holding DIMM by edges, remove it from processor board.

Note: If a black sticker covers barcode label on DIMM you are replacing, remove sticker before returning DIMM to Apple. (Service DIMMs do not include black sticker.)



Important: After re-installing or replacing DIMM, use [Memory Diagnostic LEDs](#) to verify DIMM is correctly seated.

