

Macintosh RAM Setup Configurations Table

| Macintosh Model | Possible Physical RAM Configurations (MB) (Mac OS) | Possible SIMM Sizes (Supported by Apple) | # Of SIMM Slots | Min RAM Speed | RAM Configuration | Bank A: of SIMMS x Size | Bank B: of SIMMS x Size |
|----------------------|---|--|-----------------|---------------|-------------------|-----------------------------|-------------------------|
| Macintosh Plus | 1, 2, 2.5, 4 | 256K, 1 MB | 4 | 150ns | 1 MB | 2 x 256K | 2 x 256K |
| Macintosh SE | The Macintosh Plus and Macintosh SE require special RAM upgrading. Please refer to the Apple Technical Procedures for RAM installation. The Macintosh Plus and SE cannot use 2-chip 1 MB SIMMs. | | | | 2 MB | 2 x 1 MB | Empty |
| | | | | | 2.5 MB | 2 x 1 MB | 2 x 256K |
| | | | | | 4 MB | 2 x 1 MB | 2 x 1 MB |
| Macintosh Classic | 1, 2, 2.5, 4 | 256K, 1 MB | 2 | 120ns | 1 MB | Soldered to Motherboard | |
| | The Macintosh Classic has 1 MB of RAM soldered onto the main logic added by using the Mac Classic expansion card. Apple's Macintosh Card has 1 MB of additional RAM and two SIMM slots. The Macintosh Classic cannot use 2-chip 1 MB SIMMs. | | | | 2 MB | Add Memory Expansion Card | |
| | | | | | 2.5 MB | Memory Exp. Card + 2 x 256K | |
| | | | | | 4 MB | Memory Exp. Card + 2 x 1 MB | |
| Macintosh Classic II | 2, 4, 6, 10 | 1 MB, 2 MB, 4 MB | 2 | 100ns | 2 MB | Soldered to Motherboard | |
| | The Macintosh Classic II will access 10 MB of memory when using System 7. | | | | 4 MB | 2 x 1 MB | N/A |
| | | | | | 6 MB | 2 x 2 MB | N/A |
| | | | | | 10 MB | 2 x 4 MB | N/A |
| Color Classic | 4, 6, 8, 10 | 1 MB, 2 MB, 4 MB | 2 | 100ns | 4 MB | Soldered to Motherboard | |
| Performa 250 | The Macintosh Color Classic can access only 10 MB of memory when even though the Color Classic accommodates 12MB of physical memory. | | | | 6 MB | 2 x 1 MB | N/A |
| | | | | | 8 MB | 2 x 2 MB | N/A |
| | | | | | 10 MB | 2 x 4 MB | N/A |
| Macintosh LC | 2, 4, 6, 10 | 1 MB, 2 MB, 4 MB | 2 | 100ns | 2 MB | Soldered to Motherboard | |
| | The Macintosh LC will access 10 MB of memory when using System 7. | | | | 4 MB | 2 x 1 MB | N/A |
| | | | | | 6 MB | 2 x 2 MB | N/A |
| | | | | | 10 MB | 2 x 4 MB | N/A |
| Macintosh LC II | 4, 6, 8, 10 | 1 MB, 2 MB, 4 MB | 2 | 100ns | 4 MB | Soldered to Motherboard | |
| Performa 400 | The Macintosh LC II / Performa 400 can access only 10 MB of memory in 32-bit mode, even though the LC II accommodates 12MB of physical memory. | | | | 6 MB | 2 x 1 MB | N/A |
| | | | | | 8 MB | 2 x 2 MB | N/A |
| | | | | | 10 MB | 2 x 4 MB | N/A |
| Macintosh LC III | 5, 6, 8, 12, 20, 30 | 1, 2, 4, 8, 16, and 32 MB | 1 | 80ns | 4 MB | Soldered to Motherboard | |
| Performa 450 | The Macintosh LC III will access more than 8 MB of memory when using System 7. The Macintosh LC III requires 72-pin SIMMs. | | | | 5 MB | 1 MB | N/A |
| | | | | | 6 MB | 2 MB | N/A |
| | | | | | 8 MB | 4 MB | N/A |
| | | | | | 12 MB | 8 MB | N/A |
| | | | | | 20 MB | 16 MB | N/A |
| | | 36 MB | 32 MB | N/A | | | |

| Macintosh Model | Possible Physical RAM Configurations (MB) (Mac OS) | Possible SIMM Sizes (Supported by Apple) | # Of SIMM Slots | Min RAM Speed | RAM Configuration | Bank A: of SIMMS x Size | Bank B: of SIMMS x Size |
|--|---|--|-----------------|---------------|-------------------|-------------------------|-------------------------|
| Macintosh SE | 1, 2, 4, 5, 8, | 256K, 1 MB, 4 MB | 8 | 120ns | 1 MB | 4 x 256K | Empty |
| Macintosh II | 16, 17, 20, 32 | | | | 2 MB | 4 x 256K | 4 x 256K |
| Macintosh IIx †† | | | | | 4 MB | 4 x 1 MB | Empty |
| Macintosh IIcx | | | | | 5 MB | 4 x 1 MB | 4 x 256K |
| † The Macintosh II requires the Mac II FDHD upgrade kit which includes 4 MB SIMM modules in bank A. Without the FDHD upgrade, 4 MB SIMM in bank B, and 20 MB would be the maximum configuration. | | | | | 8 MB | 4 x 1 MB | 4 x 1 MB |
| †† The Macintosh II and IIx require special 4 MB SIMMS. | | | | | 16 MB | 4 x 4 MB | Empty |
| The Macintosh SE/30, II, IIx, IIcx require Mode 32 or a similar prod | | | | | 17 MB | 4 x 4 MB | 4 x 256K |
| | | | | | 20 MB | 4 x 4 MB | 4 x 1 MB |
| | | | | | 32 MB | 4 x 4 MB | 4 x 4 MB |
| Macintosh IIsx | 1, 2, 3, 5, 9, 17 | 256K, 512K, 1 MB, 2 MB, 4 | 4 | 100ns | 1 MB | Soldered to Motherboard | |
| The Macintosh IIsx will access more than 8 MB of memory by using Symbus | | | | | 2 MB | 4 x 256K | N/A |
| | | | | | 3 MB | 4 x 512K | N/A |
| | | | | | 5 MB | 4 x 1 MB | N/A |
| | | | | | 9 MB | 4 x 2 MB | N/A |
| | | | | | 17 MB | 4 x 4 MB | N/A |
| Macintosh IIci | 2, 3, 4, 5, 6, 8, 9, 16, 12, 16, 17, 18, 20, 24, 32 | 256K, 512K, 1 MB, 2 MB, 4 | 8 | 80ns | 1 MB | 4 x 256K | Empty |
| The Macintosh IIci will access more than 8 MB of memory by using Symbus | | | | | 2 MB | 4 x 256K | 4 x 256K |
| | | | | | 3 MB | 4 x 512K | 4 x 256K |
| | | | | | | 4 x 512K | 4 x 512K |
| | | | | | 4 MB | 4 x 1 MB | Empty |
| | | | | | 5 MB | 4 x 1 MB | 4 x 256K |
| | | | | | 6 MB | 4 x 1 MB | 4 x 512K |
| | | | | | 8 MB | 4 x 1 MB | 4 x 1 MB |
| | | | | | 9 MB | 4 x 2 MB | 4 x 256K |
| | | | | | 10 MB | 4 x 2 MB | 4 x 512K |
| | | | | | 12 MB | 4 x 2 MB | 4 x 1 MB |
| | | | | | 16 MB | 4 x 4 MB | Empty |
| | | | | | | 4 x 2 MB | 4 x 2 MB |
| | | | | | 17 MB | 4 x 4 MB | 4 x 256K |
| | | | | | 18 MB | 4 x 4 MB | 4 x 512K |
| | | | | | 20 MB | 4 x 4 MB | 4 x 1 MB |
| | | | | | 24 MB | 4 x 4 MB | 4 x 2 MB |
| | | | | | 32 MB | 4 x 4 MB | 4 x 4 MB |

| Macintosh Model | Possible Physical RAM Configurations (MB) (Mac OS) | Possible SIMM Sizes (Supported by Apple) | # Of SIMM Slots | Min RAM Speed | RAM Configuration | Bank A: of SIMMS x Size | Bank B: of SIMMS x Size |
|--|--|--|-----------------|---------------|-------------------|-------------------------|-------------------------|
| Macintosh IIx | 4, 8, 16, 20, 32 | 1 MB, 4 MB | 8 | 80ns | 4 MB | 4 x 1 MB | Empty |
| The Macintosh IIx requires 64-pin SIMMs. It will access more than 8 MB of memory by using System 7 in 32-bit mode. 16 MB SIMMs may be used, but are not supported by Apple. | | | | | 8 MB | 4 x 1 MB | 4 x 1 MB |
| | | | | | 16 MB | 4 x 4 MB | Empty |
| | | | | | 20 MB | 4 x 4 MB | 4 x 1 MB |
| | | | | | 32 MB | 4 x 4 MB | 4 x 4 MB |
| Macintosh IIvx | 4, 5, 8, 12, 20, 68 | 256K, 1 MB, 2 MB, 4 MB | 4 | 80ns | 4 MB | Soldered to Motherboard | |
| The Macintosh IIvx will access more than 8 MB of memory by using System 7 in 32-bit mode. 16 MB SIMMs may be used, but are not supported by Apple. | | | | | 5 MB | 4 x 256K | N/A |
| | | | | | 8 MB | 4 x 1 MB | N/A |
| | | | | | 12 MB | 4 x 2 MB | N/A |
| | | | | | 20 MB | 4 x 4 MB | N/A |
| | | | | | 68 MB | 4 x 16 MB | N/A |
| Centris 610 | 4 to 68 | 4, 8, 16 and 32 MB | 2 | 80ns | 4 MB | Soldered to Motherboard | |
| The Centris 610 requires 72-pin SIMMs. It will access more than 8 MB of memory by using System 7 in 32-bit mode. | | | | | | | |
| The Centris 610 can use any combination of 4, 8, 16, and 32 MB memory SIMMs in any combination of slots. | | | | | | | |
| Centris 650 | 4 to 132 | 4, 8, 16 and 32 MB | 4 | 80ns | 4 or 8 MB | Soldered to Motherboard | |
| The Centris 650 requires 72-pin SIMMs. It will access more than 8 MB of memory by using System 7 in 32-bit mode. | | | | | | | |
| The Centris 650 can use any combination of 4, 8, 16, and 32 MB memory SIMMs in any combination of slots. It can have either 4 or 8 MB soldered to the motherboard. | | | | | | | |
| If you wish to use memory interleaving for better performance, you must use the same size of memory SIMMs in adjacent SIMM slots. Also, you must interleave the memory SIMMs in the left or right SIMM slots. You cannot interleave memory across the middle two SIMM slots. | | | | | | | |

Macintosh Quadra RAM Setup Configur

| Macintosh Model | Possible Physical RAM Configurations (MB) (Mac OS) | Possible SIMM Sizes (Supported by Apple) | # Of SIMM Slots | Min RAM Speed | RAM Configuration | Bank A: # of SIMMS x Size | Bank B: # of SIMMS x Size | Bank C: # of SIMMS x Size | Bank D: # of SIMMS x Size |
|---|--|--|-----------------|---------------|-------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Quadra 700 | 4, 8, 20, 68 | 1 MB, 4 MB | 4 | 80ns | 4 MB | Soldered to Motherboard | | | |
| The Quadra 700 will access more than 8 MB of memory by using System 7 in 32-bit mode. 16 MB SIMMs may be used, but are not supported by Apple. | | | | | 8 MB | 4 x 1 MB | N/A | N/A | N/A |
| | | | | | 20 MB | 4 x 4 MB | N/A | N/A | N/A |
| | | | | | 68 MB | 4 x 16 MB | N/A | N/A | N/A |
| Quadra 800 | 8 to 136 | 4, 8, 16, and 32 MB | 4 | 60ns | 8 MB | Soldered to Motherboard | | | |
| The Quadra 800 requires 72-pin SIMMs. It will access more than 8 MB of memory by using System 7 in 32-bit mode. | | | | | | | | | |
| The Quadra 800 can use any combination of 4, 8, 16, and 32 MB memory SIMMs in any combination of slots. If you wish to use memory interleaving for better performance, you must use the same size of memory SIMMs in adjacent SIMM slots. Also, you must interleave the memory SIMMs in the left or right pairs of SIMM slots. You cannot interleave memory across the middle two SIMM slots. | | | | | | | | | |
| Quadra 900 | 12, 16, 20, 24, 28, 32, 36, 40, 48, 52, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208, 224, 240, 256 | 1 MB, 4 MB | 16 | 80ns | 4 MB | 4 x 1 MB | Empty | Empty | Empty |
| Quadra 950 | 40, 48, 52, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208, 224, 240, 256 | | | | 8 MB | 4 x 1 MB | 4 x 1 MB | Empty | Empty |
| The Quadra 900 has 4 MB of factory-installed memory, while the Quadra 950 has 4 MB of factory-installed memory. | | | | | 12 MB | 4 x 1 MB | 4 x 1 MB | 4 x 1 MB | Empty |
| The Quadra 900 and 950 will access more than 8 MB of memory by using System 7 in 32-bit mode. 16 MB SIMMs may be used, but are not supported by Apple. | | | | | 16 MB | 4 x 1 MB | 4 x 1 MB | 4 x 1 MB | 4 x 1 MB |
| | | | | | or | 4 x 4 MB | Empty | Empty | Empty |
| | | | | | 20 MB | 4 x 4 MB | 4 x 1 MB | Empty | Empty |
| | | | | | 24 MB | 4 x 4 MB | 4 x 1 MB | 4 x 1 MB | Empty |
| | | | | | 28 MB | 4 x 4 MB | 4 x 1 MB | 4 x 1 MB | 4 x 1 MB |
| | | | | | 32 MB | 4 x 4 MB | 4 x 4 MB | Empty | Empty |
| | | | | | 36 MB | 4 x 4 MB | 4 x 4 MB | 4 x 1 MB | Empty |
| | | | | | 40 MB | 4 x 4 MB | 4 x 4 MB | 4 x 1 MB | 4 x 1 MB |
| | | | | | 48 MB | 4 x 4 MB | 4 x 4 MB | 4 x 4 MB | Empty |
| | | | | | 52 MB | 4 x 4 MB | 4 x 4 MB | 4 x 4 MB | 4 x 1 MB |
| | | | | | 64 MB | 4 x 4 MB | 4 x 4 MB | 4 x 4 MB | 4 x 4 MB |
| | | | | | or | 4 x 16 MB | | | |
| Other configurations are supported between 64 MB and 256 MB. | | | | | | | | | |
| | | | | | 256 MB | 4 x 16 MB | 4 x 16 MB | 4 x 16 MB | 4 x 16 MB |

osh Portable RAM Configurations Table

| Macintosh Model | Possible Physical RAM Configurations (Mac OS) (MB) | Possible Expansion Card Sizes (Supported by Apple) | # Of SIMM Slots | Min RAM Speed | RAM Configuration | RAM Expansion Card |
|--|--|--|-----------------|---------------|-------------------|--------------------------|
| Macintosh Portable | 2, 3, 4, 5, 6, 7, 8, | N/A-See note ††† | 2 | 100ns | 1 MB | Soldered to Motherboard |
| The Macintosh Portables have 1MB of RAM soldered to the main logic board. The Macintosh Portable uses Static RAM and the Backlit uses Pseudo-Static RAM. Additional RAM can be added by using an expansion card which can be used in the RAM slot or PDS slot. These expansion cards can have from 1-4MB of RAM. | | | | | | |
| PowerBook 1 | 2, 4, 6, 8 | 2 MB, 4 MB, 6 MB | 1 | 100ns | 2 MB | Soldered to Motherboard |
| | | | | | 4 MB | Add 2 MB Expansion Card |
| | | | | | 6 MB | Add 4 MB Expansion Card |
| | | | | | 8 MB | Add 6 MB Expansion Card |
| PowerBook 1 | 2, 4, 6, 8 | 2 MB, 4 MB, 6 MB | 1 | 100ns | 2 MB | Soldered to Motherboard |
| | | | | | 4 MB | Add 2 MB Expansion Card |
| | | | | | 6 MB | Add 4 MB Expansion Card |
| | | | | | 8 MB | Add 6 MB Expansion Card |
| PowerBook 1 | 2, 4, 6, 8 | 2 MB, 4 MB, 6 MB | 1 | 100ns | 2 MB | Soldered to Motherboard |
| | | | | | 4 MB | Add 2 MB Expansion Card |
| | | | | | 6 MB | Add 4 MB Expansion Card |
| | | | | | 8 MB | Add 6 MB Expansion Card |
| PowerBook 1 | 4, 8, 12, 14 | 4 MB, 8 MB, 10 MB | 1 | 85ns | 4 MB | Soldered to Motherboard |
| The PowerBook 160 will access more than 8 MB of memory by using Memory Expansion Cards larger than 4MB must have 85ns fast RAM. | | | | | 8 MB | Add 4 MB Expansion Card |
| | | | | | 12 MB | Add 8 MB Expansion Card |
| | | | | | 14 MB | Add 10 MB Expansion Card |
| PowerBook 1 | 4, 8, 12, 14 | 4 MB, 8 MB, 10 MB | 1 | 85ns | 4 MB | Soldered to Motherboard |
| The PowerBook 165c will access more than 8 MB of memory by using Memory Expansion Cards larger than 4MB must have 85ns fast RAM. | | | | | 8 MB | Add 4 MB Expansion Card |
| | | | | | 12 MB | Add 8 MB Expansion Card |
| | | | | | 14 MB | Add 10 MB Expansion Card |

osh Portable RAM Configurations Table

| Macintosh Model | Possible Physical RAM Configurations (MB) (Mac OS) | Possible Expansion Card Sizes (Supported by Apple) | # Of SIMM Slots | Min RAM Speed | RAM Configuration | RAM Expansion Card |
|---|--|--|-----------------|---------------|-------------------|--------------------------|
| PowerBook 1 | 4, 6, 8 | 2 MB, 4 MB, 6 MB | 1 | 100ns | 2 MB | Soldered to Motherboard |
| | | | | | 4 MB | Add 2 MB Expansion Card |
| | | | | | 6 MB | Add 4 MB Expansion Card |
| | | | | | 8 MB | Add 6 MB Expansion Card |
| PowerBook 1 | 4, 8, 12, 14 | 4 MB, 8 MB, 10 MB | 1 | 85ns | 4 MB | Soldered to Motherboard |
| | | | | | 8 MB | Add 4 MB Expansion Card |
| | | | | | 12 MB | Add 8 MB Expansion Card |
| | | | | | 14 MB | Add 10 MB Expansion Card |
| The PowerBook 180 will access more than 8 MB of memory by using Memory Expansion Cards larger than 4MB must have 85ns fast RAM. | | | | | | |
| PowerBk Duo | 4, 8, 12, up to 24 | 4 MB, 8 MB, 12 MB, 16 MB | 1 | 70ns | 4 MB | Soldered to Motherboard |
| | | | | | 8 MB | Add 4 MB Expansion Card |
| | | | | | 12 MB | Add 8 MB Expansion Card |
| | | | | | 16 MB | Add 12 MB Expansion Card |
| The PowerBook Duo 210 will access more than 8 MB of memory by using Memory Expansion Cards larger than 4MB must have 70ns fast RAM. | | | | | | |
| PowerBk Duo | 4, 8, 12, up to 24 | 4 MB, 8 MB, 12 MB, 16 MB | 1 | 70ns | 4 MB | Soldered to Motherboard |
| | | | | | 8 MB | Add 4 MB Expansion Card |
| | | | | | 12 MB | Add 8 MB Expansion Card |
| | | | | | 16 MB | Add 12 MB Expansion Card |
| The PowerBook Duo 230 will access more than 8 MB of memory by using Memory Expansion Cards larger than 4MB must have 70ns fast RAM. | | | | | | |
| PowerBk Duo | 4, 8, 12, up to 24 | 4 MB, 8 MB, 12 MB, 16 MB | 1 | 70ns | 4 MB | Soldered to Motherboard |
| | | | | | 8 MB | Add 4 MB Expansion Card |
| | | | | | 12 MB | Add 8 MB Expansion Card |
| | | | | | 16 MB | Add 12 MB Expansion Card |
| The PowerBook Duo 230 will access more than 8 MB of memory by using Memory Expansion Cards larger than 4MB must have 70ns fast RAM. | | | | | | |
| PowerBk Duo | 4, 8, 12, up to 24 | 4 MB, 8 MB, 12 MB, 16 MB | 1 | 70ns | 4 MB | Soldered to Motherboard |
| | | | | | 8 MB | Add 4 MB Expansion Card |
| | | | | | 12 MB | Add 8 MB Expansion Card |
| | | | | | 16 MB | Add 12 MB Expansion Card |
| The PowerBook Duo 230 will access more than 8 MB of memory by using Memory Expansion Cards larger than 4MB must have 70ns fast RAM. | | | | | | |
| PowerBk Duo | 4, 8, 12, up to 24 | 4 MB, 8 MB, 12 MB, 16 MB | 1 | 70ns | 4 MB | Soldered to Motherboard |
| | | | | | 8 MB | Add 4 MB Expansion Card |
| | | | | | 12 MB | Add 8 MB Expansion Card |
| | | | | | 16 MB | Add 12 MB Expansion Card |
| The PowerBook Duo 230 will access more than 8 MB of memory by using Memory Expansion Cards larger than 4MB must have 70ns fast RAM. | | | | | | |

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