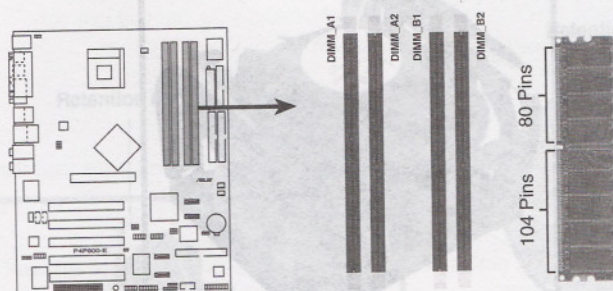


2.4 System memory

2.4.1 Overview

The motherboard comes with four Double Data Rate (DDR) Dual Inline Memory Module (DIMM) sockets.

The following figure illustrates the location of the sockets.



P4P800-E 184-Pin DDR DIMM Sockets

2.4.2 Memory configurations

You may install 64 MB, 128 MB, 256 MB, 512 MB, and 1GB DDR DIMMs into the DIMM sockets using the memory configurations in this section.

Important notes on memory configurations



1. Installing DDR DIMMs other than the recommended configurations may cause memory sizing error or system boot failure. Use any of the recommended configurations in Table 1.
2. Use the blue DIMM slots first.
3. In Dual-channel configurations, install only identical (the same type and size) DDR DIMM pairs for each channel.
4. Always install DIMMs with the same CAS latency, otherwise, the system may run in a lower frequency. For optimum compatibility, it is recommended that you obtain memory modules from the same vendor. See list of Qualified Vendors List on page 2-14.
5. When all four sockets are populated with 1GB DIMMs (total 4 GB), the system may detect only 3+GB (a little less than 4 GB) due to the Southbridge resource allocation.
6. Three DDR DIMMs installed into any three memory sockets will function in single channel mode.
7. Make sure that the memory frequency matches the CPU FSB. Refer to Table 2 for configurations.