

DDRIII SDRAM 1066 / 1333 204-PIN SO_DIMM

4GB 256Mx8

DESCRIPTION:

This document describes Aplus 512M x 64-bit 4GB DDR3 SDRAM (Synchronous DRAM) Dual In-Line Memory Module. The components on this module include sixteen 256M x 8-bit DDR3 SDRAMs in FBGA packages and a 2048-bit serial EEPROM. Those components were mounted on a 204-pin printed circuit board. This 204-pin SO_DIMM is used to be mounted into 204-pin edge connector sockets and data I/O transactions could be apply on both edges of DQS. The electrical and mechanical specifications are as follows:

FEATURES:

RoHS compliant products JEDEC standard 1.5V ± 0.075V power supply 1.5V ± 0.075V power supply VDDQ 3.0V to 3.6V VDDSPD Fast data transfer rates: PC3-10600, PC3-8500 Nominal and dynamic on-die termination (ODT) for data strobe and mask signals Single Rank On-board IIC temperature sensor with integrated serial presence-detect (SPD) EEPROM 8 inter selectable burst chop BC4 and burst length BL8 on- the-fly (OTF) Gold edge contacts Terminated control, command, and address bus

DDR3 DRAM Speed

DDR3-1066 1066Mbps CL-tRCD-tRP 7-7-7 DDR3-1333 1333Mbps CL-tRCD-tRP 9-9-9

PERFORMANCE:

Clock Cycle Time (tCK) CL(2) 533 Clock Cycle Time (tCK) CL(1) 667 Row Cycle Time (tRC) 49.125ns for 1333 50.625ns for 1066 REFRESH Row Cycle Time (tRCD) 13.125ns Memory Clock/Data Rate: 1.5ns/1333MT/s, 1.87ns/1066MT/s



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Operating Temperature 0° to 70° Storage Temperature -55° to $+100^{\circ}$

