

DDRIII SDRAM 1600 / 1333 204-PIN SO DIMM

4GB 512Mx8

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 eight 512M 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 \pm 0.075V power supply 1.5V \pm 0.075V power supply VDDQ 3.0V to 3.6V VDDSPD

Fast data transfer rates: PC3-10600, PC3-12800

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

DDR3-1600 1600Mbps CL-tRCD-tRP 11-11-11 DDR3-1333 1333Mbps CL-tRCD-tRP 9-9-9

PERFORMANCE:

Clock Cycle Time (tCK) CL(1) 667 / 800 Row Cycle Time (tRC) 49.125ns for 1333

48.125ns for 1600

REFRESH Row Cycle Time (tRCD) 13.125ns

Memory Clock/Data Rate: 1.5ns/1333MT/s, 1.25ns/1600MT/s



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Operating Temperature 0°C to 70°C

Storage Temperature -55°C to +100°C

