

DESCRIPTION:

This document describes Aplus 128M x 64-bit 1GB DDR333 CL2.5 SDRAM (Synchronous DRAM) memory module. The components on this module include sixteen 64M x 8-bit (4 Bank) DDR333 SDRAM in TSOP packages. This 184-pin DIMM uses gold contact fingers and requires +2.5V. The electrical and mechanical specifications are as follows:

FEATURES:

Power supply: V_{dd}: 2.5V ± 0.2V, V_{ddq}: 2.5V ± 0.2V
Max clock Freq: 166Mhz
Double-data-rate architecture; two data transfers per clock cycle
Bidirectional data strobe (DQS)
Differential clock inputs (CK and CK)
DLL aligns DQ and DQS transition with CK transition
Programmable Read latency 2.5 (clock)
Programmable Burst length (2,4,8)
Programmable Burst type (sequential & interleave)
Timing Reference: CL-tRCD-tRP (2.5-3-3)
Edge aligned data output, center aligned data input
Auto & Self refresh, 7.8us refresh interval (8K/64ms refresh)
Serial presence detect with EEPROM
PCB : Height 1.250"(31.75mm), double sided component

PERFORMANCE:

Clock Cycle Time (tCK)	6ns (min.) /12ns (max.)
Row Cycle Time (tRC)	60ns (min.)
Refresh Row Cycle Time (tRFC)	72ns (min.)
Row Active Time (tRAS)	42ns (min.) /70,000ns (max.)
Power Dissipation	24W
UL Rating	94 V - 0
Operating Temperature	0°C to 70 °C
Storage Temperature	-55 °C to +150 °C

