

DESCRIPTION:

This document describes Aplus 32M x 64-bit 256MB PC100 CL2 SDRAM (Synchronous DRAM) memory module. The components on this module include eight 16M x 16-bit (4 Bank) PC100 SDRAM in TSOP packages. This 144-pin SO-DIMM uses gold contact fingers and requires +3.3V. The electrical and mechanical specifications are as follows:

FEATURES:

- Single 3.3V \pm 0.3V power supply
- Burst mode operation
- Auto & self refresh capability
- LVTTTL compatible inputs and outputs
- MRS cycle with address key programs
- Latency (Access from column address)
- Burst length (1,2,4,8 & Full page)
- Data scramble (sequential & interleave)
- All inputs are sampled at the positive going edge of the system clock
- Timing Reference: CL-tRCD-tRP (2-2-2)
- Serial presence detect with EEPROM

PERFORMANCE:

CLK cycle time (tCC)	10ns (min.) /1000ns (max.)
CLK to output (tSAC)	6ns
Row active time (tRAS)	50ns (min.) /100ns (max.)
Row cycle time (tRC)	70ns (min.)
Power Dissipation	8W
Operating Temperature	0°C to 70°C
Storage Temperature	-55°C to +150°C

