

### DESCRIPTION:

This document describes Aplus 128M x 72-bit 1GB PC100 CL2 SDRAM (Synchronous DRAM) Registered ECC memory module. The components on this module include eighteen 128M x 4-bit (4 Bank) PC100 SDRAM in TSOP packages. This 168-pin 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	18W
Operating Temperature	0°C to 70 °C
Storage Temperature	-55°C to +150 °C

