



# DDR2 UNBUFFERED SDRAM DIMM

BL12864AL

BL25664AL

## Features

- 240-pin dual in-line memory module (DIMM)
- Fast data transfer rates: PC2-8500 or PC2-6400
- 1GB (128 Meg x 64) and 2GB (256 Meg x 64)
- Exclusively designed for high-performance systems
- Critical performance parameters tested for functionality
- Speed verification performed in-system
- VDD = +2.0V ±0.1V, VDDQ = +2.0V ±0.1V
- VDDSPD = +1.7V to +3.6V
- Differential data strobe (DQ, DQS#) option
- Four-bit prefetch architecture
- Auto Refresh (CBR) and Self Refresh Mode
- 7.8125µs maximum average periodic refresh interval
- 64ms, 8,192-cycle refresh
- On-die termination (ODT)
- Serial Presence Detect (SPD) with EEPROM
- Gold edge contacts
- Aluminum heat spreader
- Red and green LEDs showing memory activity
- Blue ground effects LEDs
- 1.18" (30mm) PCB Height



## Timing Parameters

| Module Marking | Module Bandwidth | Latency (CL - tRCD - tRP - tRAS) |
|----------------|------------------|----------------------------------|
| 106A           | 8.5 GB/s         | 5 - 5 - 5 - 15 *                 |
| 80A            | 6.4 GB/s         | 4 - 4 - 4 - 12 *                 |

\* Performance is verified during testing.

## Part Numbers

| Part Number   | Module Density | Memory Clock/<br>Data Bit Rate | Banking Configuration | Component Configuration |
|---------------|----------------|--------------------------------|-----------------------|-------------------------|
| BL12864AA106A | 1GB            | 1.87ns/1066 MT/s               | Single                | 128 Meg x 8             |
| BL12864AA80A  | 1GB            | 2.5ns/800 MT/s                 | Single                | 128 Meg x 8             |
| BL25664AA80A  | 2GB            | 2.5ns/800 MT/s                 | Dual                  | 128 Meg x 8             |



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