

DDR3 UNBUFFERED SDRAM DIMM

BL12864BA
BL25664BA
BL51264BA

Features

- 240-pin, unbuffered dual in-line memory module (UDIMM)
- Physical dimensions are compliant to JEDEC MO-269B
- Fast data transfer rates: PC3-12800, or PC3-10600
- 1GB (128 Meg x 64), 2GB (256 Meg x 64), and 4GB (512 Meg x 64)
- Exclusively designed for high-performance systems
- VDD = VDDQ = +1.5V ±0.075V
- VDDSPD = +3.0V to +3.6V
- Reset pin for improved system stability
- Nominal and dynamic on-die termination (ODT) for data, strobe, and mask signals
- 8 internal device banks for concurrent operation
- Fixed burst length of 8 (BL8) and burst chop of 4 (BC4) via the mode register
- Adjustable data-output drive strength
- Serial Presence-Detect (SPD) EEPROM
- Gold edge contacts
- Aluminum heat spreader



- XMP JEDEC Profiles Programmed to SPD on 160A timing parameters
- RoHS compliant
- Fly-by topology
- Terminated command, address, and control bus
- 1.18" (30.00mm) PCB Height
- TAA compliant parts available upon request

Timing Parameters

Module Marking	Module Bandwidth	Latency (CL - tRCD - tRP)
160A	12.8 GB/s	10 - 10 - 10 - 28
1339	10.6 GB/s	9 - 9 - 9 - 24

Part Numbers

Part Number*	Module Density	Memory Clock/ Data Bit Rate	Banking Configuration	Component Configuration
BL12864BA160A	1GB	1.25ns/1600 MT/s	Single	128 Meg x 8
BL12864BA1339	1GB	1.5ns/1333 MT/s	Single	128 Meg x 8
BL25664BA160A	2GB	1.25ns/1600 MT/s	Dual	128 Meg x 8
BL25664BA1339	2GB	1.5ns/1333 MT/s	Dual	128 Meg x 8
BL25664BA160A	2GB	1.25ns/1600 MT/s	Single	256 Meg x 8
BL25664BA1339	2GB	1.5ns/1333 MT/s	Single	256 Meg x 8
BL51264BA160A	4GB	1.25ns/1600 MT/s	Dual	256 Meg x 8
BL51264BA1339	4GB	1.5ns/1333 MT/s	Dual	256 Meg x 8

Note: Each part number listed in this data sheet may be available in multiple configurations. While configurations for any given part number may vary, they will all be compatible and will not have a PCB height greater than 1.18".

* TAA compliant parts will have a "T" at the end of the listed part number (i.e. BL51264BA1339T)



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