

4GB DDR3 VLP Registered Mini-DIMM



DESCRIPTION:

The Virtium Technology 4 GB DDR3 Registered Mini-DIMM features a Very-Low Profile (VLP) 0.72-inch form factor in a minimal of 0.140-inch or 3.56mm module thickness. Virtium's 4GB VLP Registered Mini-DIMM module is innovatively designed using mainstream 2Gbit DDR3 DRAM monolithic package components that meet customer needs for high density, smaller size and lower cost modules. To improve system reliability and MTBF, Virtium has applied a new layout technique that reduces the module's overall thickness and enables greater airflow through the components and throughout the system.

The Virtium 4GB VLP Registered Mini-DIMM is an optimal solution for a broad range of high-availability, critical system applications that include AdvancedTCA blades, PCI Express RAID cards, Ethernet switches and routers.

Virtium delivers a comprehensive selection of module enhancements designed for rugged, mission-critical industrial applications. Additional services include extreme temperature testing, thermal management methodologies, conformal coating, underfill, and module anchor solutions for high-vibration environments.

FEATURES:

- DDR3 Very-low profile (VLP) registered Mini-DIMM
- 2Gbit monolithic DRAM x8 non-stacked
- Module Speed Support: PC3-12800, PC3-10600, PC3-8500 or PC3-6400
- Single module per channel: 2.27W to 2.61W
- Dual module per channel: 3.62W to 4.10W
- Lead-free, RoHS compliant
- Available options: Thermal heat-spreader, thermal sensor, conformal coating and underfill protection

BENEFITS:

- Cost-effective, single die monolithic package design compared to BGA stack and DDP DRAM solutions
- High-speed computing performance
- Optimized for efficient thermal management max. airflow for dual side-by-side population of two 4GB modules in 22.5 degree angle socket
- Saves valuable board real estate with VLP form factor module
- Extended temp. screening: -40°C to +85°C

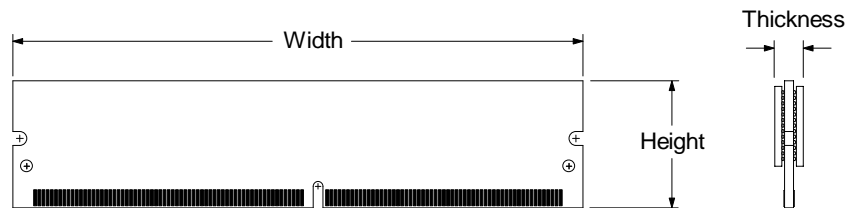
APPLICATIONS:

- AdvancedTCA Blades
- Ethernet Switches and Routers
- PCI Express RAID Cards

4GB DDR3 VLP ECC Registered Mini-DIMM

| DENSITY | HEIGHT | THICKNESS | MAX SPEED | COMP. DENSITY | COMP. PACKAGE | COMP. CONFIG. | MODULE RANKS | CL | PART NUMBER |
|---------|--------|-----------|-----------|---------------|---------------|---------------|--------------|----|----------------|
| 4GB | 0.72" | 0.134" | PC3-12800 | 2Gbit | Monolithic | x8 | 2 | 11 | VL53B5263E-K0S |
| 4GB | 0.72" | 0.134" | PC3-10600 | 2Gbit | Monolithic | x8 | 2 | 9 | VL53B5263E-K9S |
| 4GB | 0.72" | 0.134" | PC3-8500 | 2Gbit | Monolithic | x8 | 2 | 7 | VL53B5263E-F8S |
| 4GB | 0.72" | 0.134" | PC3-6400 | 2Gbit | Monolithic | x8 | 2 | 6 | VL53B5263E-E7S |

Mechanical Outlines



| Unit | Width | Height | Thickness |
|-------------|-------|--------|---------------|
| Inches | 3.228 | 0.720 | 0.134 - 0.181 |
| Millimeters | 82.00 | 18.29 | 3.40 - 4.60 |

Additional Virtium Memory Products

4GB DDR3 ULP ECC Unbuffered Mini-DIMM

| DENSITY | HEIGHT | THICKNESS | MAX SPEED | COMP. DENSITY | COMP. PACKAGE | COMP. CONFIG. | MODULE RANKS | CL | PART NUMBER |
|---------|--------|-----------|-----------|---------------|---------------|---------------|--------------|----|----------------|
| 4GB | 0.70" | 0.134" | PC3-12800 | 2Gbit | Monolithic | x8 | 2 | 11 | VL51B5263F-K0S |
| 4GB | 0.70" | 0.134" | PC3-10600 | 2Gbit | Monolithic | x8 | 2 | 9 | VL51B5263F-K9S |
| 4GB | 0.70" | 0.134" | PC3-8500 | 2Gbit | Monolithic | x8 | 2 | 7 | VL51B5263F-F8S |
| 4GB | 0.70" | 0.134" | PC3-6400 | 2Gbit | Monolithic | x8 | 2 | 6 | VL51B5263F-E7S |



Virtium Technology provides memory and solid state storage solutions for single board computers and high-reliability systems.

30052 Tomas, Rancho Santa Margarita, CA 92688 USA Tel 949.888.2444 www.virtium.com

Copyright © 2008 Virtium Technology, Inc. All rights reserved. Referenced products are trademarks or registered trademarks of their respective owners.