



Virtium

... Because we know you needed it yesterday!

DDR2 VHD Registered DIMMs



FEATURES:

- 240-pin, dual in-line memory module (DIMMs)
- Proposed JEDEC pin-out
- Memory densities available up to 4GB
- ECC support for embedded chipsets
- PC2-5300 @CL5, PC3-4200 @CL4, PC2-3200 @CL3
- VDD = VDDQ = 1.8V +/- 0.1V
- VDDSPD = 1.7V to 3.6V
- JEDEC standard 1.8V (SSTL_18 compatible)
- Differential data strobe (DQS, DQS#) option
- Differential clock inputs (CK, CK#)
- DLL aligns DQ and DQS transition with CK
- 8 Banks
- 4-bit pre-fetch architecture
- On-die termination (ODT)
- Programmable Burst Length (8)
- Average Refresh Period 7.8us
- Serial presence detect with EEPROM
- Lead-free, RoHS compliant

BENEFITS:

- Low Power
- High densities
- High operational frequency
- Reduced loading on the bus using Register and PLL
- Suitable for high-reliability and rugged systems
- Field upgrade capable

APPLICATIONS:

- Embedded Systems
- AdvancedTCA and MicroTCA
- Embedded SBC types: cPCI, PCI, PMC, AMC, VME, PC/104-Plus
- Mobile Applications

DESCRIPTION:

Virtium's Very High Density (VHD) Registered ECC DIMM memory modules are designed to satisfy the demanding memory applications for the Embedded, Telecom, Defense, Storage, and Ruggedized Computer marketplace.

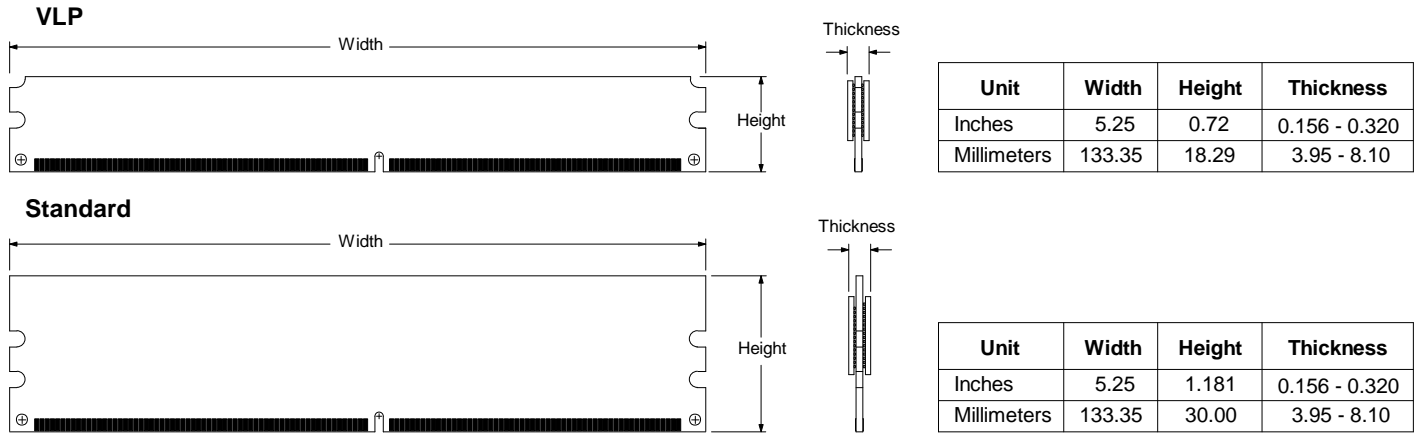
VLP (Very Low Profile) RDIMM

DENSITY	HEIGHT	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
4GB	0.72"	0.157"	PC2-5300	2Gbit	DDP	x8	4	5	VL393T5166E-E6
4GB	0.72"	0.157"	PC2-4200	2Gbit	DDP	x8	4	4	VL393T5166E-D5
4GB	0.72"	0.157"	PC2-3200	2Gbit	DDP	x8	4	3	VL393T5166E-CC
2GB	0.72"	0.156"	PC2-5300	1Gbit	Monolithic	x8	2	5	VL393T5663E-E6
2GB	0.72"	0.156"	PC2-4200	1Gbit	Monolithic	x8	2	4	VL393T5663E-D5
2GB	0.72"	0.156"	PC2-3200	1Gbit	Monolithic	x8	2	3	VL393T5663E-CC

Standard RDIMM

DENSITY	HEIGHT	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
4GB	1.181"	0.320"	PC2-5300	2Gbit	BGA-Stack	x4	2	5	VL393T5168-E6
4GB	1.181"	0.320"	PC2-4200	2Gbit	BGA-Stack	x4	2	4	VL393T5168-D5
4GB	1.181"	0.320"	PC2-3200	2Gbit	BGA-Stack	x4	2	3	VL393T5168-CC

Mechanical Outlines



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.