



Virtium

... Because we know you needed it yesterday!

DDR2 ECC Unbuffered DIMMs



FEATURES:

- 240-pin, dual in-line memory module (DIMMs)
- Proposed JEDEC pin-out
- Memory densities available up to 4GB
- Supports ECC error detection and correction
- PC2-6400 @CL6, PC2-5300 @CL5, PC3-4200 @CL4, PC2-3200 @CL3
- 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
- 4 to 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 Performance up to 800Mb/sec/pin
- ECC support for embedded chipsets
- 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 ECC unbuffered DIMM (UDIMM) memory modules are designed to satisfy the demanding memory applications for the Embedded, Telecom, Defense, Storage, and Ruggedized Computer marketplace.

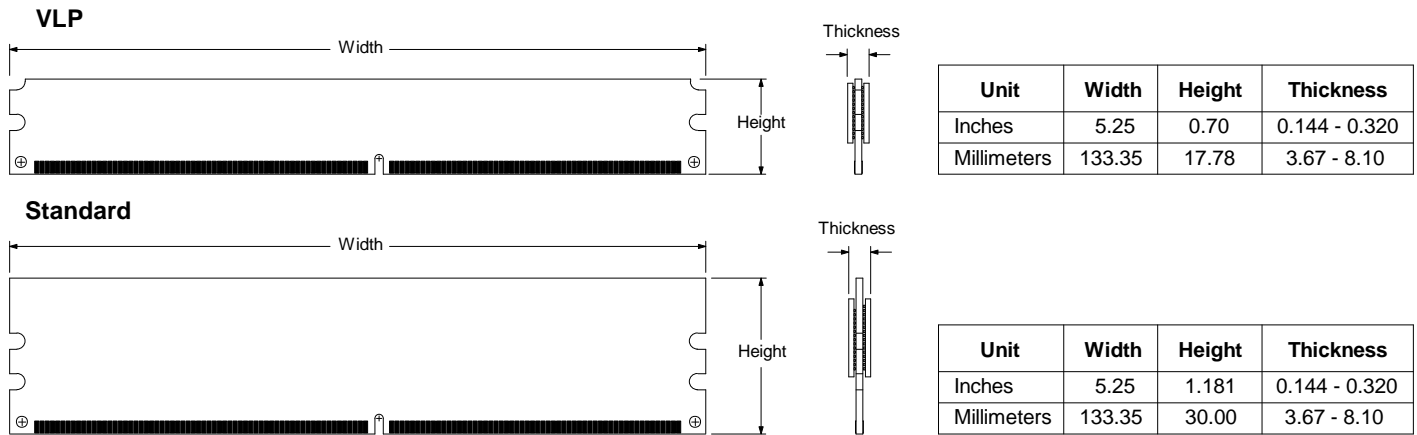
ULP (Ultra Low Profile) UDIMM

DENSITY	HEIGHT	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
2GB	0.70"	0.320"	PC2-5300	2Gbit	BGA-Stack	x8	2	5	VL391T5669F-E6
2GB	0.70"	0.320"	PC2-4200	2Gbit	BGA-Stack	x8	2	4	VL391T5669F-D5
2GB	0.70"	0.320"	PC2-3200	2Gbit	BGA-Stack	x8	2	3	VL391T5669F-CC
1GB	0.70"	0.134"	PC2-6400	512Mbit	Monolithic	x8	2	6	VL391T2953F-E7
1GB	0.70"	0.134"	PC2-5300	512Mbit	Monolithic	x8	2	5	VL391T2953F-E6
1GB	0.70"	0.134"	PC2-4200	512Mbit	Monolithic	x8	2	4	VL391T2953F-D5
1GB	0.70"	0.134"	PC2-3200	512Mbit	Monolithic	x8	2	3	VL391T2953F-CC

Standard RDIMM

DENSITY	HEIGHT	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
2GB	1.181"	0.320"	PC2-5300	2Gbit	BGA-Stack	x8	2	5	VL391T5669-E6
2GB	1.181"	0.320"	PC2-4200	2Gbit	BGA-Stack	x8	2	4	VL391T5669-D5
2GB	1.181"	0.320"	PC2-3200	2Gbit	BGA-Stack	x8	2	3	VL391T5669-CC
1GB	1.181"	0.134"	PC2-6400	512Mbit	Monolithic	x8	2	6	VL391T2953-E7
1GB	1.181"	0.134"	PC2-5300	512Mbit	Monolithic	x8	2	5	VL391T2953-E6
1GB	1.181"	0.134"	PC2-4200	512Mbit	Monolithic	x8	2	4	VL391T2953-D5
1GB	1.181"	0.134"	PC2-3200	512Mbit	Monolithic	x8	2	3	VL391T2953-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.