

DDR2 Registered ECC SO-RDIMMs



FEATURES:

- 200-pin, registered small outline dual in-line memory module (SO-RDIMMs)
- Proposed JEDEC pin-out
- Available in standard and VLP (0.72" high) form factors
- Memory densities available up to 4GB
- Supports ECC error detection and correction
- 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 667Mb/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 (ATCA), MicroTCA (MTCA)
- Embedded SBC types: cPCI, PCI, PMC, AMC, VME, PC/104-Plus
- Mobile Applications

DESCRIPTION:

Virtium's 72b-Registered ECC SODIMM memory modules are designed to satisfy the demanding memory applications for the Embedded, Telecom, Defense, Storage, and Ruggedized Computer marketplace.

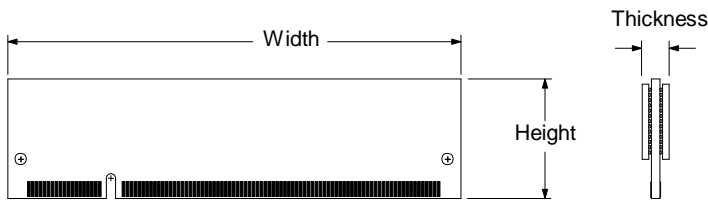
Standard SO-RDIMMs

DENSITY	HEIGHT	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
4GB	1.181"	0.146"	PC2-5300	2Gbit	DDP	x8	4	5	VL493T5166C-E6
2GB	1.181"	0.144"	PC2-5300	1Gbit	Monolithic	x8	2	5	VL493T5663A-E6
1GB	1.181"	0.144"	PC2-5300	512Mbit	Monolithic	x8	2	5	VL493T2953B-E6
1GB	1.181"	0.144"	PC2-4200	512Mbit	Monolithic	x8	2	4	VL493T2953B-D5
1GB	1.181"	0.144"	PC2-3200	512Mbit	Monolithic	x8	2	3	VL493T2953B-CC

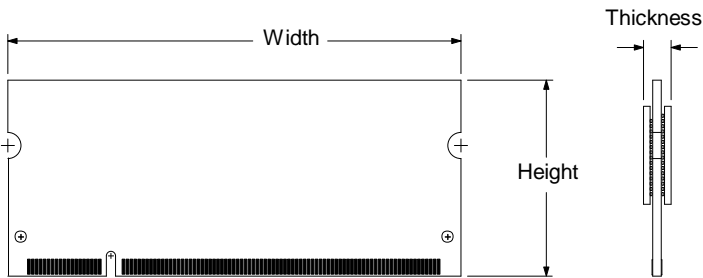
Non-Standard and VLP (Very Low Profile) SO-RDIMMs

DENSITY	HEIGHT	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
4GB	1.65"	0.146"	PC2-5300	2Gbit	DDP	x8	4	5	VL493T5166B-E6
2GB	1.65"	0.144"	PC2-5300	1Gbit	Monolithic	x8	2	5	VL493T5663B-E6
2GB	0.72"	0.144"	PC2-5300	1Gbit	Monolithic	x8	2	5	VL493T5663E-E6
1GB	0.72"	0.140"	PC2-3200	1Gbit	Monolithic	x8	1	5	VL493T2863E-E6

Mechanical Outlines



Unit	Width	Height	Thickness
Inches	2.66	0.72	0.14 - 0.146
Millimeters	67.60	18.29	3.56 - 3.72



Unit	Width	Height	Thickness
Inches	2.66	1.181 - 1.65	0.14 - 0.146
Millimeters	67.60	30 - 41.91	3.56 - 3.72



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

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