

DDR2 Registered ECC Mini-DIMMs



FEATURES:

- 244-pin, mini dual in-line memory module (Mini-DIMMs)
- 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
- PC2-6400 @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:

- Telecom and Network Blade Applications
- Storage Servers and Appliances
- AdvancedTCA (ATCA), AdvancedMC, MicroTCA (MTCA), PicoTCA
- PICMG Embedded SBC types: cPCI, PCI, PMC, AMC, VME, PC/104-Plus

DESCRIPTION:

Virtium's Mini-DIMM, Mini-RDIMM, VLP Mini-DIMM and ULP Mini-DIMM memory modules are designed to satisfy the demanding memory applications for the Embedded, Telecom, Defense, Storage, and Ruggedized Computer marketplace.

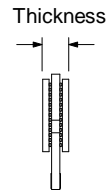
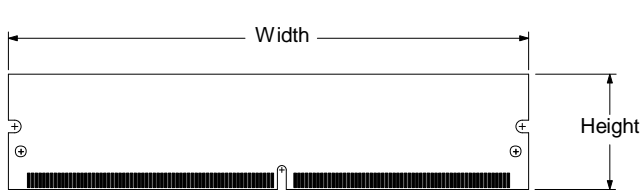
Standard Mini-DIMMs

DENSITY	HEIGHT	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
4GB	1.181"	0.309"	PC2-5300	2Gbit	BGA-Stack	x8	4	5	VL495T5169A-E6
2GB	1.181"	0.309"	PC2-5300	2Gbit	BGA-Stack	x8	2	5	VL495T5669-E6
2GB	1.181"	0.309"	PC2-4200	2Gbit	BGA-Stack	x8	2	4	VL495T5669-D5
2GB	1.181"	0.309"	PC2-3200	2Gbit	BGA-Stack	x8	2	3	VL495T5669-CC

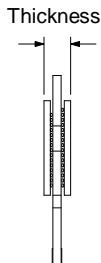
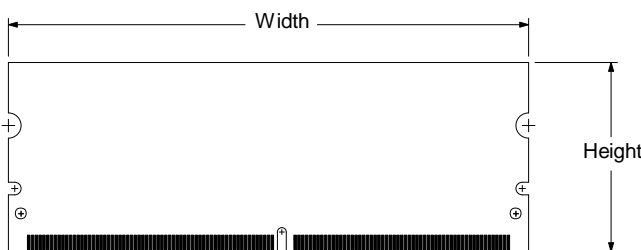
VLP (Very Low Profile) Mini-DIMMs

DENSITY	HEIGHT	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
4GB	0.720"	0.309"	PC2-5300	2Gbit	BGA-Stack	x8	4	5	VL495T5169E-E6
2GB	0.720"	0.309"	PC2-6400	2Gbit	BGA-Stack	x8	2	6	VL495T5669E-E7
2GB	0.720"	0.309"	PC2-5300	2Gbit	BGA-Stack	x8	2	5	VL495T5669E-E6
2GB	0.720"	0.309"	PC2-4200	2Gbit	BGA-Stack	x8	2	4	VL495T5669E-D5
2GB	0.720"	0.309"	PC2-3200	2Gbit	BGA-Stack	x8	2	3	VL495T5669E-CC
1GB	0.720"	0.309"	PC2-6400	1Gbit	BGA-Stack	x8	2	6	VL495T2959E-E7
1GB	0.720"	0.309"	PC2-5300	1Gbit	BGA-Stack	x8	2	5	VL495T2959E-E6
1GB	0.720"	0.309"	PC2-4200	1Gbit	BGA-Stack	x8	2	4	VL495T2959E-D5
1GB	0.720"	0.309"	PC2-3200	1Gbit	BGA-Stack	x8	2	3	VL495T2959E-CC

Mechanical Outlines



Unit	Width	Height	Thickness
Inches	3.23	0.72	0.309
Millimeters	82.00	18.29	7.85



Unit	Width	Height	Thickness
Inches	3.23	1.181	0.309
Millimeters	82.00	30.00	7.85



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

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