

Rugged DDR3 Unbuffered Non-ECC SODIMMs

Ruggedized Features:

- Thermal Heat-spreader
- Temperature Screening
 - Industrial Extended-Temp: -40C to +85C

Available Options:

- Conformal Coated
- Under-fill
- Thermal Sensor



Description:

Virtium offers DDR3 unbuffered Non-ECC small outline dual in-line memory modules (SODIMM) in a selected range of densities, speeds and features.

Virtium's SODIMMs are designed to satisfy the demanding memory applications for Embedded, Telecom, Networking, Storage, Military, Aerospace and Ruggedized Computer marketplace.



Features:

- 204-pin, Unbuffered Non-ECC small outline dual in-line memory modules (SODIMMs)
- Proposed JEDEC pin-out
- PC3-12800, PC3-10600, PC3-8500, PC3-6400
- VDD = VDDQ = 1.5V +/- 0.075V
- VDDSPD = 3V to 3.6V
- JEDEC standard 1.5V +/- 0.075V I/O (SSTL_15 compatible)
- Operating temperature: -40°C to +85°C
- 8 Banks
- 8-bit pre-fetch architecture
- Bi-directional Differential Data-Strobe
- Programmable Burst Length (8)
- On-die termination (ODT)
- Average Refresh Period 7.8us
- Serial presence detect with EEPROM
- Fly-by topology
- Lead-free, RoHS compliant

Benefits:

- Low Power
- High densities
- High operational frequency

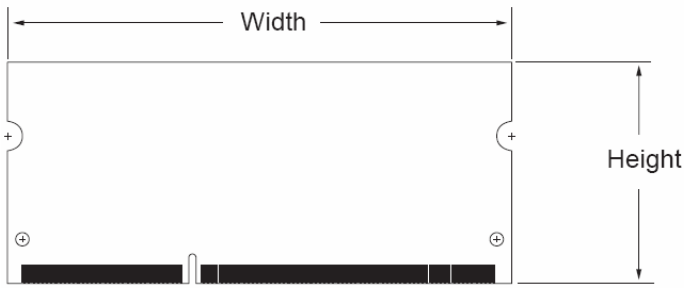
Applications:

- Single Board Computers
- Embedded Computing Platforms
- Telecommunication Servers
- Networking & Storage Appliances
- Military & Aerospace Systems

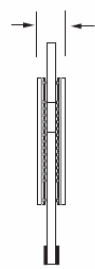
Non-ECC SODIMM

DENSITY	HGT.	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
4GB	1.181"	0.140"	PC3-10600	2Gbit	Monolithic	x8	2	9	VL47B5263A-K9
4GB	1.181"	0.140"	PC3-8500	2Gbit	Monolithic	x8	2	8	VL47B5263A-G8
4GB	1.181"	0.140"	PC3-8500	2Gbit	Monolithic	x8	2	7	VL47B5263A-F8
2GB	1.181"	0.140"	PC3-10600	1Gbit	Monolithic	x8	2	9	VL47B5663A-K9
2GB	1.181"	0.140"	PC3-8500	1Gbit	Monolithic	x8	2	8	VL47B5663A-G8
2GB	1.181"	0.140"	PC3-8500	1Gbit	Monolithic	x8	2	7	VL47B5663A-F8
1GB	1.181"	0.140"	PC3-10600	1Gbit	Monolithic	x8	1	9	VL47B2863A-K9
1GB	1.181"	0.140"	PC3-8500	1Gbit	Monolithic	x8	1	8	VL47B2863A-G8
1GB	1.181"	0.140"	PC3-8500	1Gbit	Monolithic	x8	1	7	VL47B2863A-F8

Standard

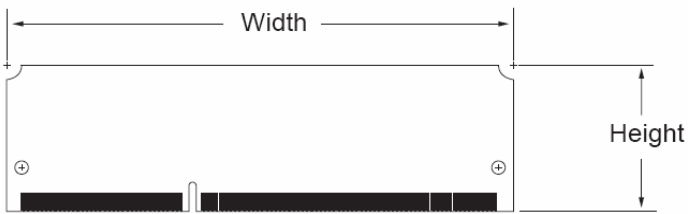


Thickness

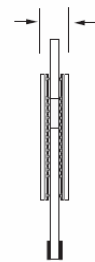


Unit	Width	Height	Thickness
Inches	2.661	1.181	0.14 - 0.320
Millimeters	67.60	30.00	3.56 – 8.13

VLP



Thickness



Unit	Width	Height	Thickness
Inches	2.661	0.720	0.14 - 0.320
Millimeters	67.60	18.29	3.56 – 8.13

Additional Virtium Memory Products

VLP (Very Low Profile) SODIMM

Unbuffered ECC SODIMM (SO-UDIMM)

Registered ECC SODIMM (SO-RDIMM)



Virtium Technology provides memory and solid state storage solutions for single board computers and platforms.

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