

DDR3 Unbuffered VLP UDIMM



DESCRIPTION:

Virtium offers DDR3 VLP (Very Low Profile: 0.72" high) unbuffered dual in-line memory module (UDIMM) in a selected range of densities, speeds and form factors.

The VLP form-factor is well suited for space constrained systems with height restrictions and low airflow requirements.

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

FEATURES:

- 240-pin, VLP dual in-line memory module (UDIMM)
- 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: 0°C to 85°C
- Industrial temperature range also available
- 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:

- Very Low Profile (VLP)
- Low Power
- High densities
- High operational frequency

APPLICATIONS:

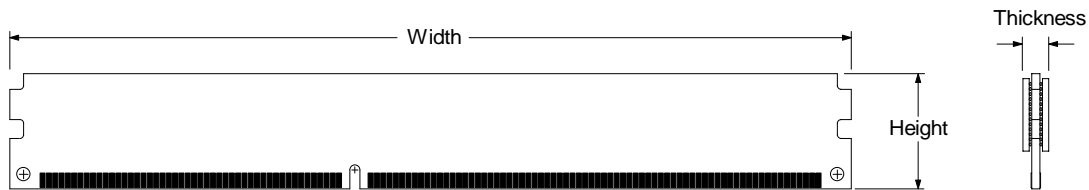
- Single Board Computers
- Embedded Computing Platforms
- Telecommunication Servers
- Networking & Storage Appliances
- Military & Aerospace Systems

VLP (Very Low Profile)

DENSITY	HEIGHT	THICKNESS	MAX SPEED	COMP. DENSITY	COMP. PACKAGE	COMP. CONFIG.	MODULE RANKS	CL	PART NUMBER
2GB	0.72"	0.144"	PC3-12800	1Gbit	Monolithic	x8	2	11	VL31B5663E-K0
2GB	0.72"	0.144"	PC3-10600	1Gbit	Monolithic	x8	2	9	VL31B5663E-K9
2GB	0.72"	0.144"	PC3-8500	1Gbit	Monolithic	x8	2	7	VL31B5663E-F8
1GB	0.72"	0.144"	PC3-12800	1Gbit	Monolithic	x8	1	11	VL31B2863E-K0
1GB	0.72"	0.144"	PC3-10600	1Gbit	Monolithic	x8	1	9	VL31B2863E-K9
1GB	0.72"	0.144"	PC3-8500	1Gbit	Monolithic	x8	1	7	VL31B2863E-F8

Mechanical Outlines

VLP



Unit	Width	Height	Thickness
Inches	5.25	0.72	0.144 - 0.320
Millimeters	133.35	18.29	3.67 - 8.15

Additional Virtium Memory Products

Virtium DDR3 RDIMM (Registered)



- 240-pin, dual in-line memory module
- Standard 1.181" and VLP 0.72" heights
- RDIMM offered in 8GB, 4GB, 2GB and 1GB densities
- Fast data transfer rates: PC3-12800, PC3-10600, PC3-8500 or PC3-6400
- JEDEC Standard form factor
- Targeted for high-speed operations
- RoHS compliance



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

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