

Data Sheet

Module Type	DDR3 VLP SODIMM
Capacity	2GB/4GB/8GB
Module speed	Up to 1866MT/s
Pin	204 pin
Cl-tRCD-tRP	13-13-13
Operating Temp	0°C ~85°C

**The Total Solution For
Industrial Flash Storage**

Rev 1.0

1. Features

Key Parameter

Industry Nomenclature	Speed Grade	Data Rate MT/s			CL	tRCD	tRP
		CL=9	CL=11	CL=13			
PC3-14900	T	1333	1600	1866	13	13	13

- JEDEC Standard 204-pin Small Outline Dual In-Line Memory Module
- Intend for PC3-14900 applications
- Inputs and Outputs are SSTL-15 compatible
- VDD=VDDQ= 1.35 Volt (-0.067/+0.1V),or 1.5 Volt (+0.075/-0.075)
- Bi-directional Differential Data Strobe
- DLL aligns DQ and DQS transition with CK transition
- SDRAMs have 8 internal banks for concurrent operation
- Normal and Dynamic On-Die Termination support.
- SDRAMs are 78-ball BGA Package
- Height 25.4mm
- 8 bit pre-fetch
- Two different termination values (Rtt_Nom & Rtt_WR)
- Self refresh 7.8 μ s ($T_c \leq +85^{\circ}C$)
- Operating temperature range $0^{\circ}C \leq T_c \leq +85^{\circ}C$
- Programmable Device Operation:
 - Burst Type: Sequential or Interleave
 - Device CAS# Latency: 6,7,8,9,10,11,13
 - Burst Length: switch on-the-fly: BL=8 or BC 4
- RoHS and Halogen free

2. Ordering Information

Density	Component Composition	Part Number	Description
2GB	256Mx8	M3S0-2GSJELPC	DDR3 1600 1Rx8 SODIMM VLP 1.5V/1.35V
4GB	256Mx8	M3S0-4GSJULPC	DDR3 1600 2Rx8 SODIMM VLP 1.5V/1.35V
4GB	512Mx8	M3S0-4GSSELPC	DDR3 1600 1Rx8 SODIMM VLP 1.5V/1.35V
8GB	512Mx8	M3S0-8GSSULPC	DDR3 1600 2Rx8 SODIMM VLP 1.5V/1.35V
4GB	256Mx8	M3S0-4GSJULQE	DDR3 1866 2Rx8 SODIMM VLP 1.5V/1.35V
8GB	512Mx8	M3S0-8GSSULQE	DDR3 1866 2Rx8 SODIMM VLP 1.5V/1.35V