

DATASHEET

Module TYPE	DDR3L 2GB~32GB RDIMM
Module speed	PC3-12800
CAS Latency	CL-11
Pin	240pin
SDRAM Operating Temp	0 °C ~ 85 °C

1. Features

Key Parameter

Industry Nomenclature	Speed Grade	Data Rate MT/s			tAA (ns)	tRCD (ns)	tRP (ns)
		CL=7	CL=9	CL=11			
PC3-12800	P	1066	1333	1600	13.125	13.125	13.125

- JEDEC Standard 240-pin Registered Dual Inline Memory Module
- Intend for PC3-12800 applications
- Inputs and Outputs are SSTL-15 compatible
- VDD=VDDQ= 1.35 Volt (-0.067/+0.1V), 1.5 Volt (-0.075/+0.075V)
- 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
- 8 bit pre-fetch
- Two different termination values (Rtt_Nom & Rtt_WR)
- Auto & self refresh 7.8 μ s ($T_A \leq +85^{\circ}\text{C}$)
- SDRAM operating temperature range $0^{\circ}\text{C} \leq T_A \leq +85^{\circ}\text{C}$
- Programmable Device Operation:
 - Burst Type: Sequential or Interleave
 - Device CAS# Latency: 7, 9, 11
 - Burst Length: switch on-the-fly: BL=8 or BC 4

2. PACKAGE DIMENSION

