

Unbuffered Memory Module Data Sheet

MW01GN6625UA8

1 GByte, DDR2, PC2-5300 (667 MHz) CL5 240 Pin DIMM

MW01GN8025UA8

1 GByte, DDR2, PC2-6400 (800 MHz) CL5 240 Pin DIMM

Description:

MW01GN6625UA8/MW01GN8025UA8 are 1 Gigabyte Memory Modules, organized as 128Mx64 bits DDR2-SDRAM. Each module is composed by eight 128Mx8 DDR2-SDRAMs ICs in FBGA package and one serial EEPROM for SPD (Serial Presence Detect), mounted on a JEDEC-Standard 240-pin DIMM (Dual In Line Memory Module) with golden contacts.

Features:

- 240-pin DIMM outline, unbuffered
- Double Data Rate architecture; two data transfers per clock cycle
- On-Die Termination Control
- Uses 128Mx8 DDR2-SDRAMs
- Differential clock inputs
- Programmable burst length: 4 or 8
- Clock Cycle Time (MW01GN6625UA8)
 - (t_{CK}) = 3.00 ns (min.) / 8 ns (max.) @ CL=5
- Clock Cycle Time (MW01GN8025UA8)
 - (t_{CK}) = 2.50 ns (min.) / 8 ns (max.) @ CL=5
- EEPROM Serial Presence Detection (SPD)
- Bidirectional, differential data strobe (DQS and / DQS)
- Eight internal device banks for concurrent operation
- Refresh to Active (t_{RFC}): 127.5 ns (min)
- Auto precharge
- Auto-refresh and Self-refresh modes
- Row address A_0 - A_{13}
- Column address A_0 - A_9
- Bank address: BA_0 ~ BA_2
- SSTL_18 Interface

Specification:

Symbol	AC Characteristic	Min.	Max.	Unit	
t_{CK}	CLK Cycle Time	MW01GN6625UA8 CL=5	3000	8000	ps
		MW01GN8025UA8 CL=5	2500		
t_{RC}	Row Cycle Time (Operation)	MW01GN6625UA8	60	-	ns
		MW01GN8025UA8	57.5		
t_{RAS}	Row Active Time	45	70,000	ns	
t_{RFC}	Auto Refresh to Active / Auto Refresh Command Time	127.5	-	ns	

Ratings:

		Rating	Unit	Cond.
Power Dissipation, Operating (Row Activating, Precharge) @VDD, VDDQ = 1.8V	MW01GN6625UA8	2.592	W	Ta=25 °C
	MW01GN8025UA8	2.664		
Operating temperature ¹		0 ~ 85	°C	
Storage temperature		-55 ~ 100	°C	

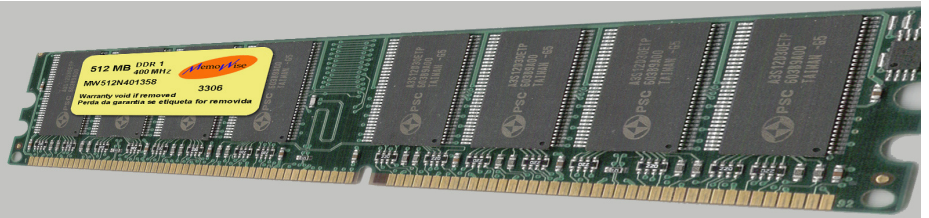
Note:

1. It refers to the operating case temperature of DRAM ICs

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Dimensions

All dimensions are in millimeters (Inches); tolerance is ± 0.127 (0.005") unless otherwise indicated

