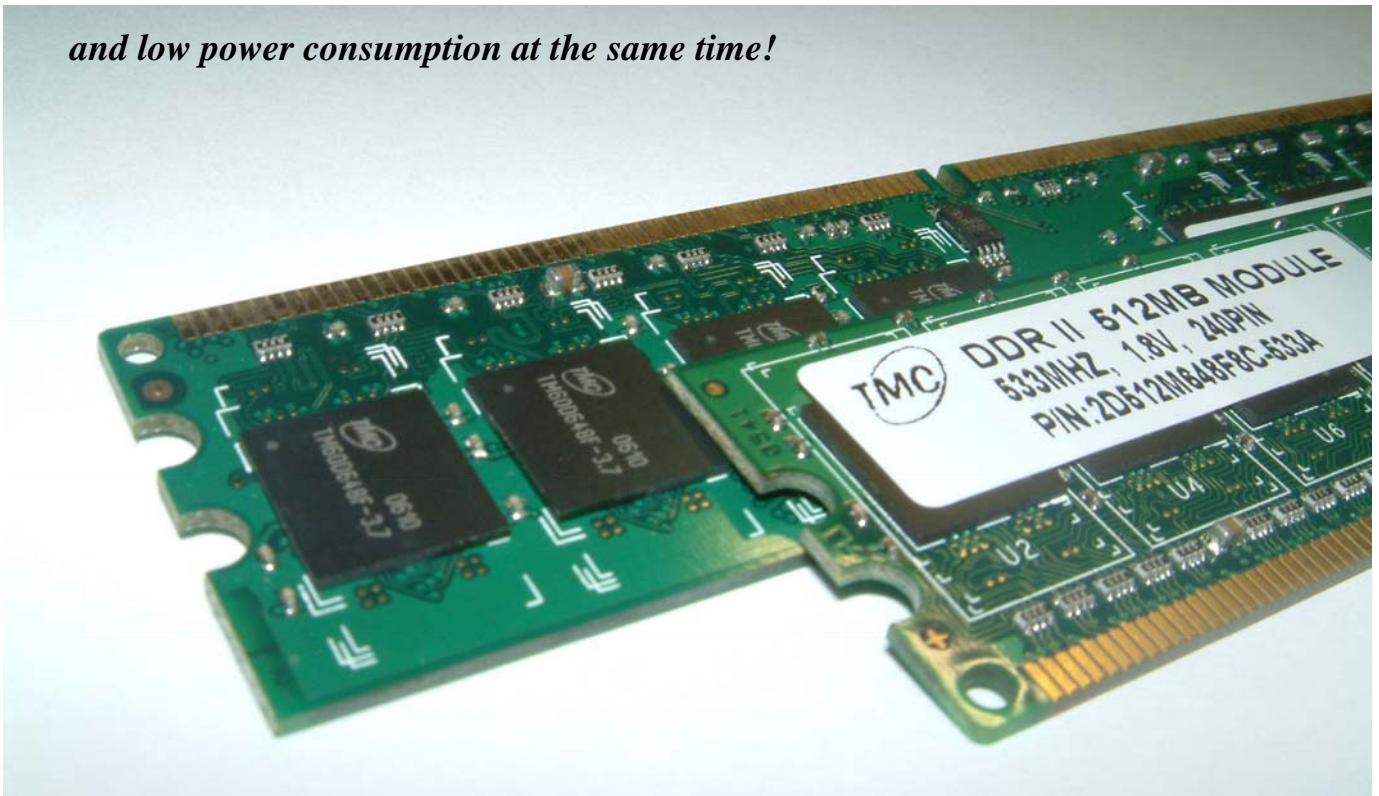


High-density memory that achieves high-speed operation

and low power consumption at the same time!



Product

PC2-4300 5300/ DDR2-533/667 DDR2 Unbuffered DIMM		
Capacity	Chip Configuration	Chip Type
512MB	64Mx8 (x8)	DDRII SDRAM
1GB	64Mx8(x16)	DDRII SDRAM

240 edge connector pads	
Data Rate	533 MHz
Data Rate	667 MHz
SSTL-18 interface	1.8 Voltage +/- 0.1V
Package	FBGA

Features

- JEDEC standard Double Data Rate 2 SDRAM components
- 512Mbyte organized as 64M x 64 bit
- 240-Pin unbuffered dual Inline Memory Module (DIMM) with gold contacts
- Differential clock inputs(CK and CK#) and data-strobe(DQS and DQS#)
- Speed grade DDRII-533, -667, -800 CL4/5 on component level (FBGA-60)
- JEDEC standard 1.8V +/- 0.1V Power Supply and SSTL_18 I/O compatible
- 7.8 μ s average periodic refresh interval(8192-cycle refresh, 64ms)
- Fitting in industry standard motherboards

Specification

Product Type Speed Code			- 3.7	- 3.0	Unit
Speed Grade			DDR2-533 4-4-4	DDR2-667 4-4-4	
Max. Clock Frequency	@CL=5	f _{ck5}	266	333.3	MHz
	@CL=4	f _{ck4}	266	333.3	MHz
	@CL=3	f _{ck3}	200	266	MHz
min. RAS-CAS-Delay		t _{RCD}	15	12	ns
min. Row Pre-charge Time		t _{RP}	15	12	ns
min. Row Active Time		t _{RAS}	45	36	ns
min. Row Cycle Time		t _{RC}	60	50	ns
Module dimensions L x W x H		134 mm x 25 mm x 1 mm			