

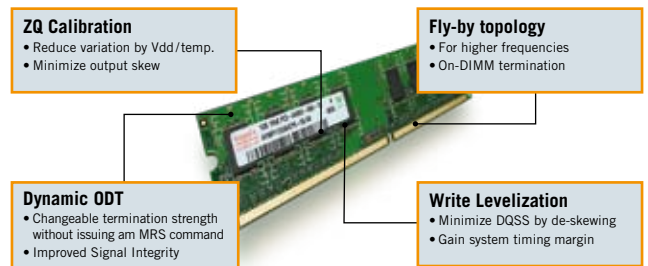
High Quality Desktop Memory



High quality commodity desktop modules

DDR3 SDRAM, which upholds the next generation main memory standard, can transfer data twice as fast as the current generation DRAM. Hynix's DDR3 SDRAM boasts high performance and low power consumption. It supports data transfer rate up to 1.6 GB/s and operates at a voltage as low as 1.5 V comparable to DDR2 which is a previous version of DDR3. Hynix now offers high performance DDR3 in 1GB and 2GB densities and is also ready to launch 4GB in near future. Hynix's DDR3 also features functions such as ZQ calibration, fly-by topology, dynamic on-die-termination and write levelization to ensure signal integrity and thus higher performance.

Key features of high speed interface



DDR2 vs. DDR3

Subject	DDR2	DDR3
Data Rate	400, 533, 667,800 Mbps	800, 1066,1333,1600 Mbps
VDD / VDDQ	1,8V +/- 0,1V	1,5V +/- 0,075V
Support Density	256MB ~ 4GB	512MB ~ 4GB
Bank	512MB : 4Bank / 1GB : 8 Bank	8 Bank
Data Pre-fetch	4 bit	8 bit
Package Type	60FBGA for x4/x8, 84FBGA for x16	78FBGA for x4/x8 , 96FBGA for x16
Interface	SSTL-18	SSTL-15
DSQ Signal	Single / Differential	Differential Only
Driver Calibration	Off-Chip Driver Calibration	Self Calibration with ZQ pin
DQS-CLK De-skewing	No	Yes (Write Leveling)
On Die Termination	Yes	Yes / Dynamic ODT
Reset pin	No	Yes (Soft power-up)

Product Lineup

DDR1 – 400
Pin:186

DDR2 – 667/800
Pin: 240

DDR3 – 1066/1333/1600
Pin: 240

