

High-Performance Server Memory



Server memory – validated Server solutions

Hynix is one of the leading manufacturers of high performance DRAM solutions especially for AMD® or Intel® based Server and Workstations. Hynix delivers server memory modules to the worlds leading manufacturers such as Apple®, Fujitsu-Siemens®, HP®, Lenovo®, NEC® and Sun® to name a few. Hynix has immediate availability of its DDR3 ECC Registered DIMMs and DDR3 ECC DIMMs for the upcoming product launches based on the Intel® Nehalem EP Processor and Tylersburg Chipset which will operate on Intel® platforms: Urbanna, Hanlan Creek, Bluff Creek and Shady Cove. VLP (Very Low Profile) RDIMM, having a lower height than normal RDIMMs is a particularly favorable product for increasing space utility and expanding memory inside a server system. Hynix has also completed development of 1.35V (low power) and 1.5V DDR3 ECC RDIMMs which are available both in normal height and VLP providing users with the benefits of lower power consumption for their server systems. Today's server main memory is still the Fully Buffered DIMM. Hynix's Fully Buffered DIMMs set industry benchmarks in power saving for server systems in data centers. Thereby they help to significantly save costs. Hynix is the perfect partner for your server memory needs.

2009 New Product Introduction

8GB DDR3 Registered (Dual Rank)
16GB DDR3 Registered (Quad and Dual Rank versions)
DDR3 Registered 1.35V (low power)
DDR3 Registered VLP 1.5V
DDR3 Registered VLP 1.35V (low power)

Planned Launch Date

June 2009
Q2 2009
1GB-4GB April 09, 8GB Q3 09 and 16GB Q4 09
1GB-4GB Q1 09 and 8GB Q3 09
1GB-2GB June 09, 4GB Q3 09 and 8GB Q4 09



Green product for a better tomorrow

Hynix Semiconductor is taking the initiative in developing environmental-friendly technology by concentrating ecological efforts for the next generation technology and voluntarily restricting use of hazardous substances. Hynix Semiconductor started to produce Lead-Free products and RoHS Compliant products that avoid the usage of the six hazardous substances banned by the EU RoHS Directive that became effective in July, 2006. In addition, Hynix Semiconductor has developed products that do not contain Halogenated Flame Retardants and has already started mass production of these Halogen Free products. In order to expand their contribution to the society and be a beloved and respected company, Hynix has created its own green product logo which is used among others on product and box labels. The green product logo represents Hynix's commitment to the human right to live in the better environment and better surroundings.

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DDR3 ECC Registered DIMMs

Loading Configurations	Speed / Rank	Module Density	Qualified Memory	Memory Under Qualification
3DPC	DDR3-800 / DR	2GB	HMT125R7AFP8C-G7	HMT125R7BFR8C-G7
		4GB	HMT151R7AFP4C-G7	HMT151R7BFR4C-G7
	DDR3-800 / SR	1GB	HMT112R7AFP8C-G7	HMT112R7BFR8C-G7
		2GB	HMT125R7AFP4C-G7	HMT125R7BFR4C-G7
2DPC	DDR3-800 / QR	4GB	HMT151R7AFP8C-G7	HMT151R7BFR8C-G7
		8GB	HMT31GR7AMP4C-G7	HMT31GR7BMR4C-G7
	DDR3-1066 / DR	2GB	HMT125R7AFP8C-G7	HMT125R7BFR8C-G7
		4GB	HMT151R7AFP4C-G7	HMT151R7BFR4C-G7
	DDR3-1066 / SR	1GB	HMT112R7AFP8C-G7	HMT112R7BFR8C-G7
		2GB	HMT125R7AFP4C-G7	HMT125R7BFR4C-G7
1DPC	DDR3-1066 / QR	4GB	HMT151R7AFP8C-G7	HMT151R7BFR8C-G7
		8GB	HMT31GR7AMP4C-G7	HMT31GR7BMR4C-G7
	DDR3-1333 / DR	2GB	HMT125R7AFP8C-H9	HMT125R7BFR8C-H9
		4GB	HMT151R7AFP4C-H9	HMT151R7BFR4C-H9
	DDR3-1333 / SR	1GB	HMT112R7AFP8C-H9	HMT112R7BFR8C-H9
		2GB	HMT125R7AFP4C-H9	HMT125R7BFR4C-H9

DDR3 ECC DIMMs

Loading Configurations	Speed / Rank	Module Density	Qualified Memory	Memory Under Qualification
2DPC	DDR3-1066 / SR	1GB	HMT112U7AFP8C-G7	HMT112U7BFR8C-G7
		2GB	HMT125U7AFP8C-G7	HMT125U7BFR8C-G7
		4GB	HMT351U7MFR8C-G7	HMT351U7AFR8C-G7 (Q3 09)
1DPC	DDR3-1333/ SR	1GB	HMT112U7AFP8C-H9	HMT112U7BFR8C-H9
		2GB	HMT125U7AFP8C-H9	HMT125U7BFR8C-H9
		4GB	HMT351U7MFR8C-H9	HMT351U7AFR8C-H9 (Q3 09)

UDIMM ECC includes a Thermal Sensor

New Intel® based DDR3 Server Motherboard Loading Configurations

DIMM Loading Configurations	UDIMM ECC		RDIMM		
	1066	1333	800	1066	1333
Single rank	2DPC	1DPC	3DPC	2DPC	1DPC
Dual rank	2DPC	1DPC	3DPC	2DPC	1DPC
Quad rank	N/A	N/A	2DPC	1DPC	N/A
DPC : DIMM per Channel					

4GB, 8GB & 16GB RDIMMS are installed with Full Device Heat Spreader

SR: Single Rank, DR: Dual Rank and QR: Quad Rank

VLP: Very Low Profile 18.75mm

- Take a look at our DDR3 ECC UDIMM modules which are perfect for the new upcoming MacPro and Xserve products launching soon from Apple®.
- Check out HMD Electronics Server Memory Configurator: www.hmdelectronics.com/serveravl