

# DDR3 SDRAM

## HMT42GR7MFR4A

SK hynix Registered DDR3L SDRAM DIMMs (Registered Double Data Rate Synchronous DRAM Dual In-Line Memory Modules) are low power, high-speed operation memory modules that use DDR3L SDRAM devices. These Registered SDRAM DIMMs are intended for use as main memory when installed in systems such as servers and workstations.

### Features

- Power Supply: VDD=1.35V (1.283V to 1.45V)
- VDDQ = 1.35V (1.283V to 1.45V)
- VDDSPD=3.0V to 3.6V
- Backward compatible with 1.5V DDR3 Memory module
- 8 internal banks
- Data transfer rates: PC3-12800, PC3-10600, PC3-8500
- Bi-Directional Differential Data Strobe
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- Supports ECC error correction and detection
- On-Die Termination (ODT)
- Temperature sensor with integrated SPD
- Backward compatible with 1.5V DDR3 Memory module
- This product in compliance with the RoHS directive

### Technical Data Sheet

Part Number	Rev.	Update Date	Remark
<a href="/product/filedata/fileDownload.do?seq=3267">HMT42GR7MFR4A (/product/filedata/fileDownload.do?seq=3267)</a>	1.0	2013-08-30	

### Serial Presence Detect

Part Number	Rev.	Update Date	Remark
<a href="/product/filedata/fileDownload.do?seq=3268">HMT42GR7MFR4A_SPD_IDT (/product/filedata/fileDownload.do?seq=3268)</a>	1.0	2013-04-09	
<a href="/product/filedata/fileDownload.do?seq=3269">HMT42GR7MFR4A_SPD_Inphi (/product/filedata/fileDownload.do?seq=3269)</a>	1.0	2013-04-09	
<a href="/product/filedata/fileDownload.do?seq=3270">HMT42GR7MFR4A_SPD_TI (/product/filedata/fileDownload.do?seq=3270)</a>	1.0	2013-04-09	

## Device Operation

Part Number	Update Date
<a href="/product/filedata/fileDownload.do?seq=3271">DDR3L_device_operation_timing_diagram_computing.pdf (/product/filedata/fileDownload.do?seq=3271)</a>	2013-10-24

## Speed

Part Number	Speed
G7	1066 7-7-7
H9	1333 9-9-9
PB	1600 11-11-11