

DDR3 Memory Modules

SMART Modular Technologies' DDR3 memory modules support up to 4GB at a 1333MHz data with a design configuration of 512Mx72 using 1Gb 128Mx8 and 256Mx4 BGA components. SMART's DDR3 RDIMMs have multiple benefits including quadrank architecture for enabling cost effective high-densities and a single-register design for reduced memory bus loading. SMART's DDR3 RDIMMs leverage 8-bit DDR3 DRAMs, allowing for lower power consumption since only half the numbers of rows and columns are accessed vs. registered DIMMs (RDIMMs) that use 4-bit DRAMs. SMART also accommodates custom DDR3 module designs based on specific OEM requirements or application trends.

Features

- Lower power
- Supply voltage reduced from 1.8V to 1.5V
- Larger densities
- Double the bandwidth of DDR2
- Improved signaling with fly-by architecture
- Thermal sensors
- Combined register & PLL on RDIMMs
- Master reset for system stability
- Variety of module form factors

DDR3 Memory Modules

240 PIN – DDR3 SDRAM Registered DIMM

SMART Part Number	Density	Height (in)	Module Config.	DeviceType
SG5722G4AH8P0PH	16GB	1.18	2Gx72	512Mx4
SG5722G4AH8PDPH1	16GB	0.74	1Gx72	512Mx4
SG5721G4AH8P6PH	8GB	1.18	1Gx72	256Mx4
SG5721G4FH8P0PH	8GB	1.18	1Gx72	512Mx4
SG5721G8CH8P0PH1	8GB	0.74	1Gx72	256Mx8
SG5721G4AH8P0PH1	8GB	0.74	1Gx72	512Mx4
SG572128FH8P6PH	4GB	1.18	512Mx72	128Mx8
SG572128FH8P0PH1	4GB	0.74	512Mx72	256Mx8
SG572128FH8P0PH	4GB	1.18	512Mx72	256Mx8
SG572124AH8P6PH1	4GB	0.74	512Mx72	256Mx4
SG572128FH8P0PH2	4GB	0.70	512Mx72	256Mx8
SG572124FH8P0PH	4GB	1.18	512Mx72	512Mx4
SG572124FH8P6PH	4GB	1.18	512Mx72	256Mx4
SG572564FH8P6PH	2GB	1.18	256Mx72	256Mx4
SG572568FH8P0PH	2GB	1.18	256Mx72	256Mx8
SG572568FH8P6PH	2GB	1.18	256Mx72	128Mx8
SG572568FH8P6PH1	2GB	0.74	256Mx72	128Mx8
SG572568FH8P0PH1	2GB	0.74	256Mx72	256Mx8
SG572568FH8P6PH2	2GB	0.70	256Mx72	128Mx8
SG572284FH8P6PH	1GB	1.18	128Mx72	256Mx4
SG572288FH8P6PH	1GB	1.18	128Mx72	128Mx8
SG572288FH8P6PH1	1GB	0.74	128Mx72	128Mx8
SG572288FH8P6PH2	1GB	0.70	128Mx72	128Mx8
SG572288FH8P6PH2	1GB	0.70	128Mx72	128Mx8

Ordering Information

240 PIN – DDR3 SDRAM Unbuffered ECC DIMM

SMART Part Number	Density	Height (in)	Module Config.	DeviceType
SG5721G8FH8D6PH	8GB	1.18	1Gx72	512Mx8
SG572128FH8D0PH	4GB	1.18	512Mx72	256Mx8
SG572128FH8D0PH1	4GB	0.72	512Mx72	256Mx8
SG572568FH8D0PH	2GB	1.18	256Mx72	256Mx8
SG572568FH8D6PH1	2GB	0.72	256Mx72	128Mx8
SG572568FH8D6PH	2GB	1.18	256Mx72	128Mx8
SG572288FH8D6PH	1GB	1.18	128Mx72	128Mx8

240 PIN – DDR3 SDRAM Unbuffered Non-ECC DIMM

SMART Part Number	Density	Height (in)	Module Config.	DeviceType
SG5641G8FH8N6PH	8GB	1.18	1Gx64	512Mx8
SG564128FH8N0PH	4GB	1.18	512Mx64	256Mx8
SG564568FH8N0PH	2GB	1.18	256Mx64	256Mx8
SG564568FH8N6PH	2GB	1.18	256Mx64	128Mx8
SG564288FH8N6PH	1GB	1.18	128Mx64	128Mx8

204 PIN – DDR3 SDRAM Unbuffered Non-ECC SO-DIMM

SMART Part Number	Density	Height (in)	Module Config.	DeviceType
SG564128FH8NZPH	4GB	1.18	512Mx64	256Mx8
SG564128FH8NWPH	4GB	1.18	512Mx64	512Mx8
SG564568FH8NZPH	2GB	1.18	256Mx64	256Mx8
SG564568FH8NWPH	2GB	1.18	256Mx64	128Mx8
SG564288FH8NWPH	1GB	1.18	128Mx64	128Mx8

204 PIN – DDR3 SDRAM Unbuffered ECC SO-DIMM

SMART Part Number	Density	Height (in)	Module Config.	DeviceType
SG572128FH8DZPH	4GB	1.18	512Mx72	256Mx8
SG572568FH8DWPH	2GB	1.18	256Mx72	128Mx8
SG572568FH8DZPH1	2GB	1.00	256Mx72	256Mx8
SG572288FH8DWPH1	1GB	1.00	128Mx72	128Mx8

204 PIN – DDR3 SDRAM Registered ECC SO-RDIMM

SMART Part Number	Density	Height (in)	Module Config.	DeviceType
SG572128FH8EZPH	4GB	1.18	512Mx72	256Mx8
SG572568FH8EZPH	2GB	1.18	256Mx72	256Mx8
SG572568FH8EWPH	2GB	1.18	256Mx72	128Mx8
SG572288FH8EWPH	1GB	1.18	128Mx72	128Mx8

Speed Grade Options

SG5uuuuuuuuPH DDR3-1333 CL9

SG5uuuuuuuuRN DDR3-1600 CL11

Voltage Options

SG5uuuuuHuuuuu 'H' = 1.5V

SG5uuuuuJuuuuu 'J' = 1.35V

Ordering Information

244 PIN – DDR3 SDRAM Registered Mini-RDIMM

SMART Part Number	Density	Height (in)	Module Config.	DeviceType
SG5721G8CH8YZPH	8GB	1.18	1Gx72	256Mx8
SG5721G8CH8YWPH1	8GB	0.74	1Gx72	512Mx8
SG572128FH8YZPH	4GB	1.18	512Mx72	256Mx8
SG572128CH8YZPH1	4GB	0.74	512Mx72	256Mx8
SG572568FH8YZPH	2GB	1.18	256Mx72	256Mx8
SG572568FH8YWPH	2GB	1.18	256Mx72	128Mx8
SG572568FH8YZPH1	2GB	0.74	256Mx72	256Mx8
SG572288FH8YWPH1	1GB	0.74	128Mx72	128Mx8
SG572288FH8YWPH	1GB	1.18	128Mx72	128Mx8

244 PIN – DDR3 SDRAM Unbuffered ECC Mini-UDIMM

SMART Part Number	Density	Height (in)	Module Config.	DeviceType
SG572128FH8SZPH	4GB	1.18	512Mx72	256Mx8
SG572128CH8SZPH1	4GB	0.74	512Mx72	256Mx8
SG572568FH8SZPH	2GB	1.18	256Mx72	256Mx8
SG572568FH8SWPH	2GB	1.18	256Mx72	128Mx8
SG572568FH8SZPH1	2GB	0.74	256Mx72	256Mx8
SG572288FH8SWPH1	1GB	0.74	128Mx72	128Mx8

Speed Grade Options

SG5uuuuuuuuPH DDR3-1333 CL9
 SG5uuuuuuuuRN DDR3-1600 CL11

Voltage Options

SG5uuuuuuHuuuuu 'H' = 1.5V
 SG5uuuuuuJuuuuu 'J' = 1.35V



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