

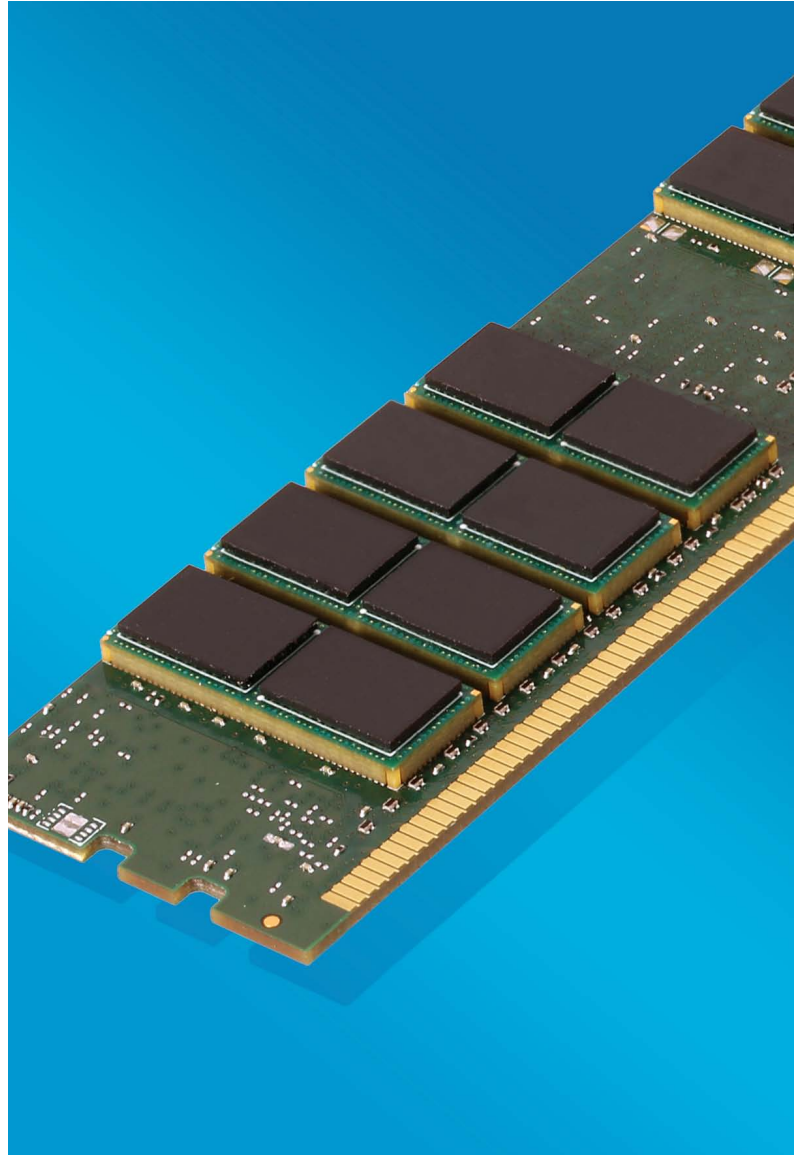
DDR3 Memory

DDR3

Viking Technology has over two decades of supporting Original Equipment Manufacturers (OEMs) with the industry's most complete range of DDR3 memory modules ranging from LRDIMMs to SOUDIMMs and everything in between. Leveraging Viking Technology's advanced packaging expertise, locked BOM control, and AS9100, TL 9000, and ISO 14001 certified facilities, Viking Technology is able to deliver the highest quality memory modules catered to the demands and requirements of both Enterprise and Embedded markets. With Viking Technology testing facilities and equipment, each module is tested to the demands required from blade servers, AdvancedTCA, MicroTCA, Single Board Computers (SBC), along with a whole host of enterprise appliances.

Viking Technology DDR3 Memory modules density up to 16GB and is supported in both commercial temperature (0°C – 70°C) and industrial temperature (-40°C – 85°C).

Viking Technology DRAM stacking capabilities is also deployed for the DDR3 memory family to enable higher density modules, allowing for lower cost compared to DDP's or single die monolithic devices.



DDR3 MEMORY FEATURES

- JEDEC standard 1.5V power supply
- Differential CLK (#CLK) input
- Higher peak bandwidth (up to 1600Mt/s)
- Differential bidirectional data strobe
- Self refresh temperature (SRT)
- Automatic self refresh (ASR)
- Multipurpose register
- Available with or without ECC (Error Correction)
- Available in either Registered or Unbuffered
- System Level time calibration support
- Controlled Bill of Materials (BOM)
- Burst type: Sequential and Interleave

DDR3 Memory

PRODUCT SPECIFICATIONS

DENSITY

up to 16GB

RELIABILITY

ECC 72-bit

DATA RATE/ CAS LATENCY

DDR3-800 @ CL = 5

DDR3-800 @ CL = 6

DDR3-1066 @ CL = 7

DDR3-1066 @ CL = 8

DDR3-1333 @ CL = 9

DDR3-1333 @ CL = 10

DDR3-1600 @ CL = 9

DDR3-1600 @ CL = 10

POWER

Voltage 1.5V ± 0.075V and 1.35V

ENVIRONMENTAL

Commercial Temp 0°C to 70 °C

Industrial Temp -40°C to + 85°C

Safety / Agency / Compliance RoHS

TECHNICAL INFORMATION

8 Internal banks

System level timing calibration support

Asynchronous reset

On-die termination (ODT) and Dynamic ODT for improved signal integrity

On-Dimm thermal sensor

Serial presence detect with EEPROM

Form Factor	DDR3	Stacked DRAM
LRDIMM	up to 32GB	up to 32GB
RDIMM	up to 32GB	up to 32GB
UDIMM	up to 8GB	
MiniRDIMM	up to 8GB	
MiniUDIMM	up to 8GB	
VLP MiniRDIMM	up to 8GB	up to 8GB
VLP MiniUDIMM	up to 8GB	
VLP RDIMM	up to 16GB	up to 16GB
VLP UDIMM	up to 8GB	
VLP SORDIMM	up to 8GB	up to 8GB
SODIMM	up to 8GB	
SORDIMM	up to 8GB	
SOUDIMM	up to 8GB	
SOCDIMM		
ULP RDIMM	up to 16GB	
ULP MiniRDIMM	up to 8GB	
ULP MiniUDIMM	up to 8GB	

For part numbers and capacity options, please email us at sales@vikingtechnology.com.

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