



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PRODUCT BRIEF | DDR4, DDR3, DDR2, DDR1

# DRAM MEMORY MODULES

From enterprise to Embedded to network infrastructure, OEMs from around the world trust in Viking Technology's DRAM modules and technology. Viking has more than just a long history of supporting OEMs with edging lead DRAM technology but also provides its customers with legacy support. With the industry's broadest offering of standard DRAM modules, specialty modules, and small form factor modules, Viking is not only a provider of high-quality memory but a partner in DRAM technology.

## FEATURES

- ▶ Broadest DRAM Offering
- ▶ JEDEC Standard
- ▶ Customized Testing
- ▶ Locked Bill of Materials (BOM)
- ▶ Extending Burn-in Testing
- ▶ Thermal Modeling
- ▶ Ultra Small Form Factors

Custom Form Factors

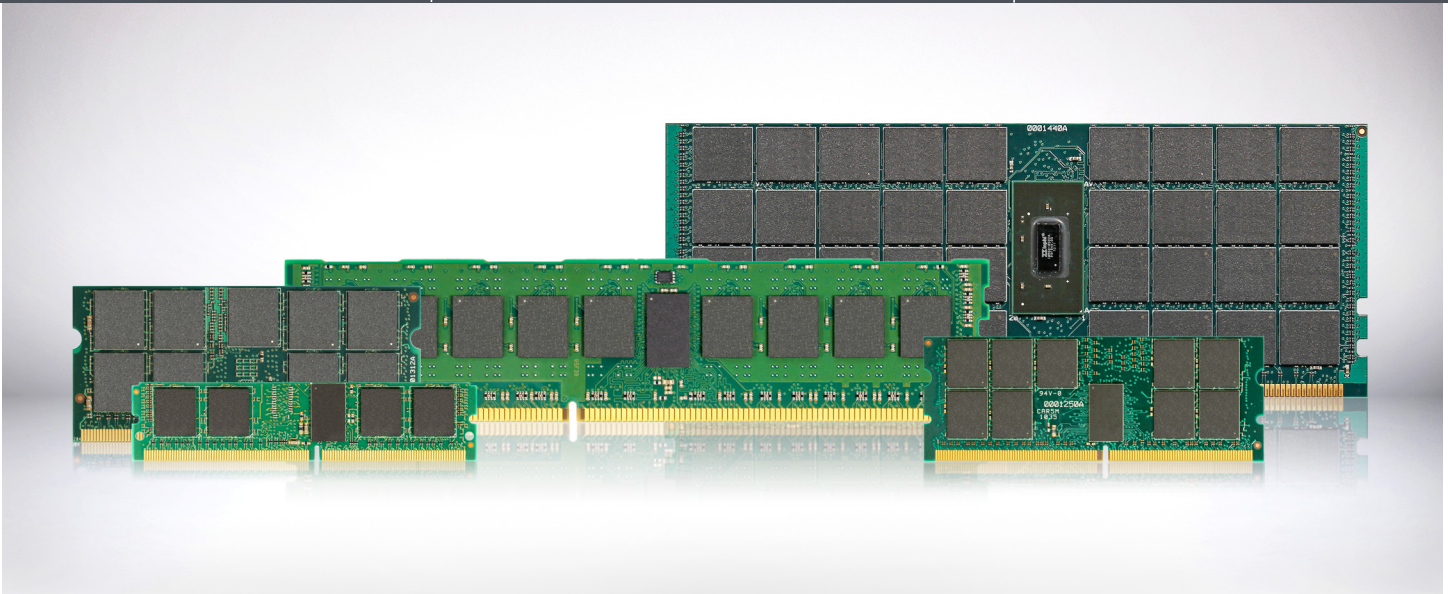
JEDEC Standard Form Factors

-55°C to +125°C (Military temp)

Stacking Technology

Multi-chip DRAM Packaging

Conformal Coating



# DRAM MEMORY MODULES

SPECIFICATION		DDR1	DDR2	DDR3	DDR4
CHIP DENSITY	Min	256MB	512MB	1GB	4GB
	Max	512MB	2GB*	8GB*	32GB
MODULE DENSITY	Max	4GB	16GB	64GB	128GB
SPEED	Slowest	200MT/s	400MT/s	800MT/s	1600MT/s
	Fastest	400MT/s	800MT/s	1866MT/s	2666MT/s
PACKAGE	Package	TSOP/FBGA	FBGA	FBGA	FBGA

FORM FACTOR	DDR4	DDR3	DDR2	DDR1
LRDIMM	Up to 128GB	Up to 32GB		
RDIMM	Up to 64GB	Up to 32GB	Up to 16GB	Up to 4GB
UDIMM	Up to 64GB	Up to 16GB	Up to 8GB	Up to 2GB
VLP RDIMM	Up to 32GB	Up to 16GB	Up to 8GB	Up to 4GB
VLP UDIMM	Up to 32GB	Up to 8GB	Up to 4GB	Up to 1GB
ULP RDIMM	Up to 32GB	Up to 16GB	Up to 8GB	
MiniRDIMM	Up to 16GB	Up to 16GB	Up to 8GB	Up to 1GB
MiniUDIMM	Up to 16GB	Up to 16GB	Up to 4GB	Up to 1GB
VLP MiniRDIMM	Up to 16GB	Up to 8GB	Up to 4GB	NA
VLP MiniUDIMM		Up to 8GB	Up to 4GB	NA
ULP MiniRDIMM	Up to 16GB	Up to 8GB		NA
ULP MiniUDIMM	Up to 16GB	Up to 8GB		NA
SORDIMM	Up to 16GB	Up to 16GB	Up to 4GB	Up to 1GB
SOUDIMM	Up to 16GB	Up to 8GB	Up to 4GB	Up to 1GB
SOCDIMM	NA	NA	Up to 4GB	Up to 1GB
VLP SORDIMM	Up to 8GB	Up to 8GB		

TEMPERATURE RANGE				
	Commercial	Commercial	Commercial	Commercial
	Industrial	Industrial	Industrial	Industrial
	Automotive	Automotive		
	Military	Military		

For price and availability, please email us at [sales@vikingtechnology.com](mailto:sales@vikingtechnology.com).



## Global Locations

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