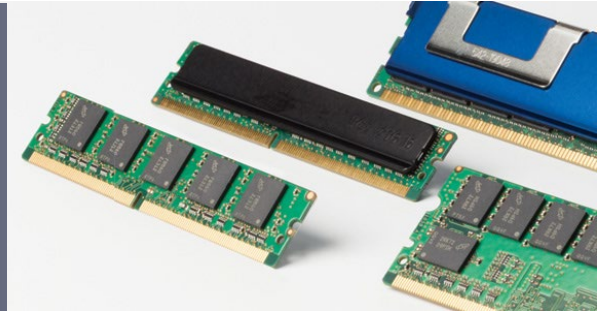


DRAM for every design

Micron® DRAM module form factors quick reference guide

Accelerate your time-to-market with quality DRAM modules rigorously tested for reliability in a wide range of applications. From the cost-sensitive needs of consumer computing to the extreme temperature and performance needs of industrial applications to the exacting specifications of enterprise systems, we have the right solution for your design.



Form Factor	Available ¹ Technologies	Available ¹ Densities	Bus Width ²	Data Rate (MT/s)
UDIMM (unbuffered DIMM) Supported systems with no size constraints	DDR5	8GB to 16GB	x64/x72	5600
CUDIMM (clocked unbuffered DIMM) Supported systems with no size constraints	DDR5	8GB to 64GB	x64/x72	5600 to 8000
SODIMM (small outline DIMM)	DDR4, DDR5	8GB to 32GB	x64/x72	3200 to 5600
CSODIMM (clocked small outline DIMM)	DDR5	8GB to 64GB	x64/x72	6400 to 7200
SOEDIMM (small outline DIMM) ECC supported SODIMM	DDR4	16GB to 32GB	x72	3200
RDIMM (registered DIMM) ECC and non-ECC supported networking, enterprise servers, and workstations	DDR4, DDR5	16GB to 128GB	x72/x80	3200 to 8000
MRDIMM (multiplex DIMM) Supported systems AI and HPC workloads	DDR5	32Gb to 192GB	x80	12800

¹Available = sampling or in production; ²All x72 modules are ECC-enabled

[micron.com](https://www.micron.com)

Products are warranted only to meet Micron's production data sheet specifications. Products, programs and specifications are subject to change without notice. Dates are estimates only. ©2019 Micron Technology, Inc. All rights reserved. All information herein is provided on an "AS IS" basis without warranties of any kind. Micron, the Micron logo, and all other Micron trademarks are the property of Micron Technology, Inc. All other trademarks are property of their respective owners.
Rev. M 03/26 CCMMD-676576390-9486

DRAM for every design

Device and Form Factor		Density	Pin Count	Width	Voltage	Data Rate	RoHS	PCB Dimensions
DDR5	UDIMM	8GB to 32GB	288	x64	1.1V	5600 MT/s	Green	133.35mm L x 31.25mm H
	CUDIMM	8GB to 64GB	288	x64	1.1V	6400 to 7200 MT/s	Green	133.35mm L x 31.25mm H
	SODIMM	8GB to 16GB	262	x64	1.1V	5600 MT/s	Green	69.6mm L x 30mm H
	CSODIMM	8GB to 64GB	262	x64	1.1V	6400 to 7200 MT/s	Green	69.6mm L x 30mm H
	RDIMM	16GB to 128GB	287	x80	1.1V	6400 to 9200 MT/s	Green	133.35mm L x 31.25mm H
	MRDIMM	32GB to 192GB	287	x80	1.1V	12800 to 14400 MT/s	Green	133.35mm L x 31.25mm H
DDR4	SODIMM	8Gb to 32GB	260	x64/x72	1.1V	3200 MT/s	Green	69.60mm L x 30mm H
	SOEDIMM	16GB to 32GB	288	x72	1.1V	3200 MT/s	Green	133.35mm L x 31.25mm H
	RDIMM	16GB to 64GB	288	x72	1.1V	3200 MT/s	Green	133.35mm L x 31.25mm H

micron.com

Products are warranted only to meet Micron's production data sheet specifications. Products, programs and specifications are subject to change without notice. Dates are estimates only. ©2019 Micron Technology, Inc. All rights reserved. All information herein is provided on an "AS IS" basis without warranties of any kind. Micron, the Micron logo, and all other Micron trademarks are the property of Micron Technology, Inc. All other trademarks are property of their respective owners.
Rev. M 03/26 CCMMD-676576390-9486

