

Micron® DRAM Memory Support for Intel® IoT Platforms

Save yourself time and money—Micron memory comes **validated** on Intel IoT platforms

	Form Factor	Density	Memory Configuration
Intel Atom® Processor			
Intel Atom x6000E Series / Intel Pentium® and Celeron® N and J Series Processors — Elkhart Lake	FBGA (memory down)*	8Gb, 16Gb, 32Gb	LPDDR4x-4266 x32
	FBGA (memory down)*	8Gb, 16Gb	DDR4-3200 x16
Intel Atom Processor C3000 Series — Denverton	FBGA (memory down)*	4Gb, 8Gb	DDR4-2400
Intel Atom Processor E3900 Series, Intel Celeron Processor N3350, and Intel Pentium Processor N4200 — Apollo Lake	FBGA (memory down)*	4Gb-32Gb	LPDDR4-1600
	FBGA (memory down)*	4Gb, 8Gb	DDR3L-1600
Intel Atom x5-Z8300 Processor — Cherry Trail	FBGA (memory down)	8Gb-32Gb	LPDDR3-1866
Intel® Core™ i5 and Core™ i7 Processors			
13th Generation Intel Core i5 and Core i7 Processors — Raptor Lake	FBGA (memory down)*	64Gb	LPDDR5x-8500 x32
12th Generation Intel Core i5 and Core i7 Processors — Alder Lake	FBGA (memory down)*	16Gb	DDR5-4800 x8, x16
	SODIMM* UDIMM	8GB, 16GB, 32GB	DDR5-4800
11th Generation Intel Core Processor — Tiger Lake	FBGA (memory down)*	16Gb-128Gb	LPDDR4x-4266 x32
		4Gb, 8Gb, 16Gb	DDR4-3200 x8, x16
	SODIMM* UDIMM	4GB, 8GB, 16GB	DDR4-3200
10th Generation Intel Core Processor — Comet Lake	FBGA (memory down)*	4Gb, 8Gb, 16Gb	DDR4-2933 x8, x16
	SODIMM* UDIMM	4GB, 8GB, 16GB	DDR4-2933
9th Generation Intel Core, Intel Pentium, Intel Celeron Processor — Coffee Lake Refresh	FBGA (memory down)*	4Gb, 8Gb, 16Gb	DDR4-2666 x8, x16
	SODIMM* UDIMM	4GB, 8GB, 16GB	DDR4-2666
8th Generation Intel Core, Intel Pentium, Intel Celeron Processor — Coffee Lake/Whiskey Lake	FBGA (memory down)*	4Gb, 8Gb, 16Gb	DDR4-2666 x8, x16
	SODIMM* UDIMM	4GB, 8GB, 16GB	DDR4-2666
7th Generation Intel Core Desktop/Mobile Processor — Kaby Lake	FBGA (memory down)*	4Gb, 8Gb, 16Gb	DDR4-2400
	SODIMM* UDIMM	2GB, 4GB, 8GB, 16GB	DDR4-2400
		4GB, 8GB, 16GB	DDR4-2400
FBGA (memory down)	8Gb-32Gb	LPDDR3-1866/2133	
Intel® Xeon® Processor			
3rd Generation Intel Xeon Scalable Processor — Ice Lake SP	ECC UDIMM*	32GB	DDR4-3200
2nd Generation Intel Xeon Scalable Processor — Cascade Lake	ECC UDIMM*	8GB, 16GB	DDR4-2933
Intel Xeon E-2100 Processor — Coffee Lake	ECC UDIMM*	8GB, 16GB	DDR4-2666
Intel Xeon Scalable Processor — Skylake-SP	RDIMM	4GB-128GB	DDR4-2666
	LRDIMM	64GB-128GB	DDR4-2666
Intel Xeon E5-2600 Processor — Broadwell-EP	RDIMM	8GB, 16GB, 32GB	DDR4-1600/2133/2400
Intel Xeon D-1500 Processor — Broadwell-DE	ECC UDIMM*	8GB, 16GB	DDR4-2133
Intel® Movidius™ VPU			
Gen 3 Intel Movidius — Keem Bay	FBGA (memory down)*	8Gb, 16Gb, 32Gb	LPDDR4x-4266 x32
Intel® Movidius™ Myriad™ X VPU	FBGA (memory down)*	16Gb	LPDDR4-3200

Please verify exact configuration and specification with your Intel or Micron representative.

* These devices have lifecycles supported for 5 to 10+ years. For more details, go to www.micron.com/lifecycle or contact your Micron representative.

For more details on Micron memory for Intel platforms, go to www.micron.com/solutions/micron-ecosystem-partner-programs/chipset-and-logic-partners/intel.

Micron® Flash Memory Support for Intel® IoT Platforms

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	Micron Flash	SPI NOR	Managed NAND	
	Family	MT25Q	MTFC	
	Density	128Mb–2Gb	16GB–128GB	2GB–8GB
	Voltage	3V/1.8V	3V/1.8V	
	Speed	133/166 MHz	eMMC 5.1 ¹	eMMC 5.0/4.51/4.41
	Width	x1, x2, x4	x1, x4, x8	
	Temperature/Grade	Industrial, Automotive	Industrial, Automotive, Wireless	
	Packages	SO8W, SO16, DFN, BGA, WLCSP	153/100-ball BGA	153/100/169-ball BGA
				2100AI
				64GB–1TB
				3V
				PCIe Gen3
				x4
				Industrial, Automotive
				M.2, 16x20 BGA
Intel Atom® Processor				
	Intel Atom x6000E Series / Intel Pentium® and Celeron® N and J Series Processors — Elkhart Lake		✓	
	Intel Atom Processor C3000 series — Denverton	✓		✓
	Intel Atom Processor E3900 series, Intel Celeron Processor N3350, Intel Pentium Processor N4200 — Apollo Lake	✓		✓
	Intel Atom x5-Z8300 Processor — Cherry Trail			✓
Intel® Core™ i5 and Core™ i7 Processors				
	12th Generation Intel Core Processor — Alder Lake	✓		
	11th Generation Intel Core Processor — Tiger Lake	✓		✓
	10th Generation Intel Core Processor — Comet Lake	✓		
	9th Generation Intel Core, Intel Pentium, Intel Celeron Processor — Coffee Lake Refresh	✓		
	8th Generation Intel Core, Intel Pentium, Intel Celeron Processor — Coffee Lake/Whiskey Lake	✓		
	7th Generation Intel Core Desktop/Mobile Processor — Kaby Lake	✓		
Intel® Xeon® Processor				
	3rd Generation Intel Xeon Scalable Processor — Ice Lake SP	✓		
	2nd Generation Intel Xeon Scalable Processor — Cascade Lake	✓		
	Intel Xeon E-2100 Processor — Coffee Lake	✓		
	Intel Xeon Scalable Processor — Skylake-SP	✓		
	Intel Xeon E5-2600 Processor — Broadwell-EP	✓		
	Intel Xeon Processor D-1500 — Broadwell-DE	✓		
Intel® Movidius™ VPU				
	Gen 3 Intel Movidius VPU — Keem Bay	✓	✓	
	Intel® Movidius™ Myriad™ X VPU	✓		

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1. EOL pending; please contact your Micron representative for details.

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