

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			
Atom Processor C3000 series – Denverton NS	FBGA (memory down)*	4Gb, 8Gb	DDR4-2400
Atom Processor E3900 series, Intel Celeron [™] Processor N3350, and Intel Pentium [™] Processor N4200 – Apollo Lake	FBGA (memory down)*	4Gb–32Gb	LPDDR4-1600
Atom x3-C3230RK Processor – SoFIA 3G-R	VFPGA eMCP*	8GB e.MMC 5.0 + 8Gb LPDDR3	e.MMC v5.0 + LPDDR3-1866 x32
Atom x5-Z8300 Processor – Cherry Trail	FBGA, PoP (memory down)	16Gb–32Gb	LPDDR3-1866
Pentium and Celeron Processor N3000 Product Families – Brasswell	FBGA (memory down)*	4Gb, 8Gb	DDR3L-1600
	ECC/non-ECC SODIMM*	2GB, 4GB, 8GB	DDR3L-1600
Atom Processor E3800 – Bay Trail	FBGA (memory down)*	4Gb	DDR3L-1333/1600
Atom Processor C2000 – Rangeley	ECC SODIMM*	4GB, 8GB	DDR3L-1600
Intel Core[™] i5 and Core[™] i7 Processors			
7th Generation Intel Core Desktop/Mobile Processor Family and Intel Xeon [®] Processor E3-1500 v6 Product Family with Intel 100 Series or CM230 Series Chipsets – Kaby Lake H/S/U/Y	FBGA (memory down)*	4Gb, 8Gb, 16Gb	DDR4-2400
	non-ECC SODIMM*	2GB, 4GB, 8GB, 16GB	DDR4-2400
	ECC UDIMM	4GB, 8GB, 16GB	DDR4-2400
	FBGA, PoP (memory down)	8Gb–32Gb	LPDDR3-1866/2133
6th Generation Intel Core Desktop/Mobile Processor Family with Intel 100 Series Chipsets and Intel Xeon Processor E3-1200/ E3-1500 v5 Product Family with C230/CM230 Series Chipsets – Skylake S/H/U	FBGA (memory down)*	4Gb, 8Gb	DDR4-2133
	UDIMM, SODIMM*	4Gb, 8Gb, 16GB	DDR4-2133
5th Generation Intel Core Processors with Mobile Intel QM87 and HM86 Chipsets – Broadwell H/U	FBGA (memory down)*	4Gb, 8Gb	DDR3L-1600
	SODIMM*	2GB, 4GB, 8GB	DDR3L-1600
4th Generation Intel Core Processors with Intel Communications Chipset 89xxCC Series – Glen Forest (Haswell Mobile + Cave Creek)	FBGA (memory down)*	4Gb, 8Gb	DDR3L-1600
	SODIMM*	2GB, 4GB, 8GB	DDR3L-1600
Intel Xeon, Intel Core, and Intel Pentium Processors with Intel Communications Chipset 89xx Series – Crystal Forest/ Gladden Refresh	ECC UDIMM*, LRDIMM, RDIMM, VLP RDIMM	2GB, 4GB, 8GB	DDR3/L-1333/1600
4th Generation Intel Core Processors with Intel Q87 Chipset – Shark Bay Desktop (Haswell + Lynx Point)	UDIMM*	4GB, 8GB	DDR4-2133
4th Generation Core Processors with Mobile Intel QM87 and HM86 Chipsets – Shark Bay Mobile (Haswell + Lynx Point)	FBGA (memory down)*	4Gb, 8Gb	DDR3L-1600
	SODIMM*	2GB, 4GB, 8GB	DDR3L-1600
Intel Xeon[®] Processor			
Intel Xeon Scalable Processors with Intel C620 Series Chipsets – Purley (Skylake-SP and Lewisburg)	RDIMM	4GB–128GB	DDR4-2666
	LRDIMM	64GB–128GB	DDR4-2666
Intel Xeon Processor E5-2600 v4 Product Family with Intel C612 Chipset – Grantley Refresh (Broadwell-EP + Wellsburg)	RDIMM	8GB, 16GB, 32GB	DDR4-1600/2133/2400
Intel Xeon Processor D-1500 Product Family – Broadwell DE	ECC UDIMM*	8GB, 16GB	DDR4-2133
Intel Xeon Processor E5-2600 v3 Product Family with Intel Communications Chipset 89xx Series – River Forest (Haswell + Coletto Creek) and Intel Xeon Processor E5-2600 v3 Product Family with Intel C612 Chipset – Grantley (Haswell-EP + Wellsburg)	LRDIMM	32GB	DDR4-2133
	RDIMM	4GB, 8GB, 16GB	DDR4-2133/2400
Intel Xeon Processor E5-2600 v2 Product Family with Intel Communications Chipset 89xx Series – Crystal Forest/Server Refresh and Intel Xeon Processor E5-2600 v2 Product Family with Intel C604 Chipset and Intel C602-J Chipset – Romley-EP Refresh	RDIMM	2GB, 4GB, 8GB, 16GB, 32GB	DDR3/L-1066/1333/1600/1866
	LRDIMM	8GB, 16GB, 32GB, 64GB	DDR3/L-1333/1600/1866
	ECC UDIMM*	2GB, 4GB, 8GB	DDR3-1600/1866

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-valued-partner-program/chipset-partner/intel.

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Micron Flash		SPI NOR	e.MMC		
	Family	MT25Q	v4.41	v4.51 ²	v5.0 ²
	Density	32–64MB (128Mb–1Gb)	4MB–128GB		
	Voltage	3V/1.8V	3V V _{CC} : 3V/1.8V I/O		
	Speed	108/133/166 MHz	SDR/DDR 52 MHz	SDR/DDR 52 MHz, HS200	SDR/DDR 52 MHz, HS200 HS400
	Width		x1, x4, x8		
	Temperature/Grade	Industrial, Automotive	Automotive, Industrial, Wireless		
	Packages	SO16, DFN6x8, BGA	100/153/169-ball BGA, 162-ball eMCP BGA		
	Intel Atom™ Processor				
Atom Processor C3000 series – Denverton NS	✓				✓
Atom Processor E3900 series, Intel Celeron™ Processor N3350 and Intel Pentium™ Processor N4200 – Apollo Lake	✓		✓		✓
Atom x3-C3230RK Processor – SoFIA 3G-R			✓		✓
Atom x5-Z8300 Processor – Cherry Trail			✓	✓	✓
Pentium and Celeron Processor N3000 Product Families – Brasswell			✓	✓	✓
Intel Core™ i5 and Core™ i7					
7th Generation Intel Core Desktop/Mobile Processor Family and Intel Xeon Processor E3-1500 v6 Product Family with Intel 100 Series or CM230 Series Chipsets – Kaby Lake H/S/U/Y	✓				
6th Generation Intel Core Desktop/Mobile Processor Family with Intel 100 Series Chipsets and Intel Xeon Processor E3-1200/E3-1500 v5 Product Family with Intel C230/CM230 Series Chipsets – Skylake S/H/U	✓				
5th Generation Intel Core Processors with Mobile Intel QM87 and HM86 Chipsets – Broadwell H/U	✓				
4th Generation Intel Core Processors with Intel Communications Chipset 89xxCC Series – Glen Forest (Haswell Mobile + Cave Creek)	✓				
Intel Xeon, Intel Core, and Intel Pentium® Processors with Intel Communications Chipset 89xx Series – Crystal Forest/Gladden Refresh	✓				
4th Generation Intel Core Processors with Intel Q87 Chipset – Shark Bay Desktop (Haswell + Lynx Point)	✓				
4th Generation Intel Core Processors with Mobile Intel QM87 and HM86 Chipsets – Shark Bay Mobile (Haswell + Lynx Point)	✓				
Xeon® Processor					
Intel Xeon Scalable Processors with Intel C620 Series Chipsets – Purley (Skylake-SP and Lewisburg)	✓				
Intel Xeon Processor E5-2600 v4 Product Family with Intel C612 Chipset – Grantley Refresh (Broadwell-EP + Wellsburg)	✓				
Intel Xeon Processor D-1500 Product Family – Broadwell DE	✓				
Intel Xeon Processor E5-2600 v3 Product Family with Intel Communications Chipset 89xx Series – River Forest (Haswell + Coletto Creek) and Intel Xeon Processor E5-2600 v3 Product Family with Intel® C612 Chipset – Grantley (Haswell-EP + Wellsburg)	✓				

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1. EOL pending; please contact your Micron representative for details.
2. 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-valued-partner-program/chipset-partner/intel.