# Micron® DRAM Support for Intel® IoT Platforms



## Save yourself time and money — Micron memory for use on Intel platforms

<table>
<tr><td></td><td></td><th>Form Factor</th><th>Density</th><th>Memory Configuration</th></tr>
<tr><td rowspan="30">Intel Platforms</td><td colspan="4"><strong>Intel Quark™ Processor</strong></td></tr>
<tr><td>Quark SoC X1000 – <em>Clanton/Galileo Gen 2</em></td><td>FBGA (memory down)*</td><td>2Gb</td><td>DDR3–1600</td></tr>
<tr><td colspan="4"><strong>Intel Atom™ Processor</strong></td></tr>
<tr><td>Atom Processor E3900 series, Intel Celeron™ Processor N3350, and Intel Pentium™ Processor N4200 – <em>Apollo Lake</em></td><td>FBGA (memory down)*</td><td>4Gb, 8Gb, 12Gb, 16Gb, 24Gb, 32Gb</td><td>LPDDR4-1600 x32</td></tr>
<tr><td>Atom x3-C3230RK Processor – <em>SoFIA 3G-R</em></td><td>VFBGA eMCP*</td><td>8GB e.MMC 5.0 + 8Gb LPDDR3</td><td>e.MMC v5.0 + LPDDR3-1866 x32</td></tr>
<tr><td>Atom x5-Z8300 Processor – <em>Cherry Trail</em></td><td>FBGA, PoP (memory down)</td><td>2GB, 4GB</td><td>LPDDR3-1866 x64</td></tr>
<tr><td rowspan="2">Pentium and Celeron Processor N3000 Product Families – <em>Brass-well</em></td><td>FBGA (memory down)*</td><td>4GB, 8GB</td><td>DDR3L–1600</td></tr>
<tr><td>ECC/non-ECC SODIMM*</td><td>2GB, 4GB, 8GB</td><td>DDR3L–1600</td></tr>
<tr><td>Atom Processor E3800 – <em>Bay Trail</em></td><td>FBGA (memory down)*</td><td>4Gb</td><td>DDR3L–1333/1600</td></tr>
<tr><td>Atom Processor C2000 – <em>Rangeley</em></td><td>ECC SODIMM*</td><td>4GB, 8GB</td><td>DDR3L–1600</td></tr>
<tr><td colspan="4"><strong>Intel Core™ i5 and Core™ i7 Processors</strong></td></tr>
<tr><td rowspan="2">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 – <em>Skylake S/H/U</em></td><td>FBGA (memory down)*</td><td>4Gb, 8Gb</td><td>DDR4–2133</td></tr>
<tr><td>UDIMM, SODIMM*</td><td>4Gb, 8Gb, 16GB</td><td>DDR4–2133</td></tr>
<tr><td rowspan="2">5th Generation Intel Core Processors with Mobile Intel QM87 and HM86 Chipsets – <em>Broadwell H/U</em></td><td>FBGA (memory down)*</td><td>4Gb, 8Gb</td><td>DDR3L–1600</td></tr>
<tr><td>SODIMM*</td><td>2GB, 4GB, 8GB</td><td>DDR3L–1600</td></tr>
<tr><td rowspan="2">4th Generation Intel Core Processors with Intel Communications Chipset 89xxCC Series – <em>Glen Forest (Haswell Mobile + Cave Creek)</em></td><td>FBGA (memory down)*</td><td>4Gb, 8Gb</td><td>DDR3L–1600</td></tr>
<tr><td>SODIMM*</td><td>2GB, 4GB, 8GB</td><td>DDR3L–1600</td></tr>
<tr><td>Intel Xeon, Intel Core, and Intel Pentium Processors with Intel Communications Chipset 89xx Series – <em>Crystal Forest/Gladden Refresh</em></td><td>ECC UDIMM*, LRDIMM, RDIMM, VLP RDIMM</td><td>2GB, 4GB, 8GB</td><td>DDR3/L–1333/1600</td></tr>
<tr><td>4th Generation Intel Core Processors with Intel Q87 Chipset – <em>Shark Bay Desktop (Haswell + Lynx Point)</em></td><td>UDIMM*</td><td>4GB, 8GB</td><td>DDR4–2133</td></tr>
<tr><td rowspan="2">4th Generation Core Processors with Mobile Intel QM87 and HM86 Chipsets – <em>Shark Bay Mobile (Haswell + Lynx Point)</em></td><td>FBGA (memory down)*</td><td>4Gb, 8Gb</td><td>DDR3L–1600</td></tr>
<tr><td>SODIMM*</td><td>2GB, 4GB, 8GB</td><td>DDR3L–1600</td></tr>
<tr><td colspan="4"><strong>Intel Xeon® Processor</strong></td></tr>
<tr><td>Intel Xeon Processor E5-2600 v4 Product Family with Intel C612 Chipset – <em>Grantley Refresh (Broadwell-EP + Wellsburg)</em></td><td>RDIMM</td><td>8GB, 16GB, 32GB</td><td>DDR4–1600/2133/2400</td></tr>
<tr><td>Intel Xeon Processor D-1500 Product Family – <em>Broadwell DE</em></td><td>ECC UDIMM*</td><td>8GB, 16GB</td><td>DDR4–2133</td></tr>
<tr><td rowspan="2">Intel Xeon Processor E5-2600 v3 Product Family with Intel Com-munications Chipset 89xx Series – <em>River Forest (Haswell + Coleto Creek)</em> and Intel Xeon Processor E5-2600 v3 Product Family with Intel C612 Chipset – <em>Grantley (Haswell-EP + Wellsburg)</em></td><td>LRDIMM</td><td>32GB</td><td>DDR4–2133</td></tr>
<tr><td>RDIMM</td><td>4GB, 8GB, 16GB</td><td>DDR4–2133/2400</td></tr>
<tr><td rowspan="3">Intel Xeon Processor E5-2600 v2 Product Family with Intel Communications Chipset 89xx Series – <em>Crystal Forest/Server Refresh</em> and Intel Xeon Processor E5-2600 v2 Product Family with Intel C604 Chipset and Intel C602-J Chipset – <em>Romley-EP Refresh</em></td><td>RDIMM</td><td>2GB, 4GB, 8GB, 16GB, 32GB</td><td>DDR3/L–1066/1333/1600/1866</td></tr>
<tr><td>LRDIMM</td><td>8GB, 16GB, 32GB, 64GB</td><td>DDR3/L–1333/1600/1866</td></tr>
<tr><td>ECC UDIMM*</td><td>2GB, 4GB, 8GB</td><td>DDR3–1600/1866</td></tr>
<tr><td>Intel Xeon Processor E3-1200 v3 Product Family with Intel HD Graphics P4600 and Intel C226 Chipset – <em>Denlow (Haswell + Lynx Point)</em></td><td>ECC UDIMM*</td><td>2GB, 4GB, 8GB</td><td>DDR3L–1600</td></tr>
<tr><td>Intel Xeon Processor E3-1200 v2 Series with Intel C216 Chipset – <em>Carlow</em></td><td>ECC UDIMM*</td><td>2GB, 4GB, 8GB</td><td>DDR3–1600</td></tr>
</table>

*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**.

# Micron® SPI NOR Flash/e.MMC Memory Support for Intel® IoT Platforms

**AVNET® SILICA**

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| Product | SPI NOR Flash | | | | e.MMC | | |
|---|---|---|---|---|---|---|---|
| **Family** | **M25PE¹** | **N25Q¹** | **N25Q¹** | **N25Q¹/ MT25Q** | **v4.41** | **v4.51²** | **v5.0²** |
| **Density** | 512Kb–2MB (4–16Mb) | 4–16MB (32–128Mb) | 4–16MB (32–128Mb) | 32–64MB (256–512Mb) | 4MB–128GB | | |
| **Voltage** | 3V | 3V | 1.8V | 3V/1.8V | $3V\ V_{CC}$; 3V/1.8V I/O | | |
| **Speed** | 75 MHz | 108 MHz | 108 MHz | 108/133/166 MHz | SDR/DDR 52 MHz | SDR/DDR 52 MHz, HS200 | SDR/DDR 52 MHz, HS200 HS400 |
| **Width** | x1 | x1, x2, x4 | | | x1, x4, x8 | | |
| **Temperature/Grade** | Industrial, Automotive | | | | Automotive, Industrial, Wireless | | |
| **Packages** | SO8N | SO8W, SO16, DFN | | SO16, DF-N6x8, BGA | 100/153/169-ball BGA, 162-ball eMCP BGA | | |
| **Intel® Quark™ Processor** | | | | | | | |
| Quark SoC X1000 – *Clanton/Galileo Gen 2* | | | | | ✔ | ✔ | ✔ |
| **Intel Atom™ Processor** | | | | | | | |
| 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* | | ✔ | ✔ | | ✔ | ✔ | ✔ |
| Atom E3800 Processor – *Bay Trail* | | ✔ | ✔ | | | | |
| Atom Processor C2000 – *Rangeley* | ✔ | ✔ | | | | | |
| **Intel Core™ i5 and Core™ i7** | | | | | | | |
| 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 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 + Coleto Creek)* and Intel Xeon Processor E5-2600 v3 Product Family with Intel® C612 Chipset – *Grantley (Haswell-EP + Wellsburg)* | ✔ | ✔ | | ✔ | | | |
| 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* | ✔ | ✔ | | | | | |
| Intel Xeon Processor E3-1200 v3 Product Family with Intel HD Graphics P4600 and Intel C226 Chipset – *Denlow (Haswell + Lynx Point)* | ✔ | ✔ | | | | | |
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*Please verify exact configuration and specification with your Intel or Micron representative.*

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**.

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