

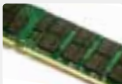







# ATP Industrial Grade DRAM Modules

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications

Product	Category	Speed (MT/s)	Form Factor	Features
<b>DDR4</b> 	RDIMM RDIMM VLP UDIMM/UDIMM ECC SO-DIMM ECC	2133	<ul style="list-style-type: none"> <li>Low profile</li> <li>Very Low Profile (VLP) options (VLP: 0.74" height)</li> </ul>	<ul style="list-style-type: none"> <li>Density: 4GB to 16GB</li> <li>Increase performance and bandwidth which is up to 3200 MT/s</li> <li>Decrease voltage for better power consumption</li> <li>Provide better reliability, availability and serviceability (RAS) and improve data integrity as well.</li> </ul>
<b>DDR3</b> 	LRDIMM RDIMM UDIMM/UDIMM ECC SO-RDIMM SO-DIMM/SO-DIMM ECC mini-RDIMM mini-UDIMM ECC	1866 1600 1333 1066	<ul style="list-style-type: none"> <li>Low profile</li> <li>Very Low Profile (VLP) options (VLP: 0.74" height)</li> <li>Ultra Low Profile (ULP) options (ULP: 0.7"~0.72" height)</li> </ul>	<ul style="list-style-type: none"> <li>Density: 1GB to 32GB 32GB to 64GB(LRDIMM)</li> <li>Chipkill support</li> <li>Fly-by command/address/control bus with on-DIMM termination.</li> <li>Higher bandwidth performance, effectively up to 1866 MT/s</li> <li>Better performance at low power; 1.5V (Normal) and 1.35V(Low Voltage)</li> </ul>
<b>DDR2</b> 	RDIMM UDIMM/UDIMM ECC SO-RDIMM SO-CDIMM SO-DIMM mini-RDIMM FB-UDIMM*	800 667 533 400	<ul style="list-style-type: none"> <li>Low Profile</li> <li>Very Low Profile (VLP) options (VLP:0.72"~0.74" height)</li> </ul>	<ul style="list-style-type: none"> <li>Density: 1GB to 8GB</li> <li>Chipkill support</li> </ul> <b>FB-DIMM</b> <ul style="list-style-type: none"> <li>Low power and low voltage options</li> <li>Apple FB-DIMM</li> </ul>
<b>DDR*</b> 	UDIMM/UDIMM ECC SO-CDIMM SO-DIMM	400 333 266	<ul style="list-style-type: none"> <li>Low Profile</li> <li>Very Low Profile (VLP) options (VLP:0.72"~0.74" height)</li> </ul>	<ul style="list-style-type: none"> <li>Density: 512MB to 1GB</li> <li>Chipkill support</li> </ul>
<b>SDRAM*</b> 	RDIMM UDIMM/UDIMM ECC SO-UDIMM	PC 133 PC 100	<ul style="list-style-type: none"> <li>Low Profile</li> <li>Very Low Profile (VLP) options (VLP:0.72"~0.74" height)</li> </ul>	<ul style="list-style-type: none"> <li>Density: 256MB to 1GB</li> <li>Chipkill support</li> <li>Legacy system support</li> </ul>
Product Portfolio	Category	Product	Features	
<b>Industrial Grade Family</b> 	SO-DIMM UDIMM RDIMM	DDR3 DDR2 DDR* SDRAM*	<ul style="list-style-type: none"> <li>Extended temperature: -40°C ~ +85°C</li> <li>Controlled BOM and SPD</li> <li>For mission critical industrial applications</li> <li>conformal coating</li> </ul>	

\* Available on a project basis.

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