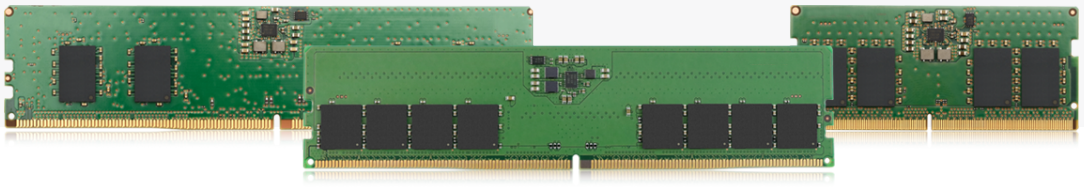
DDR5

The Global Leader in Specialized Storage and Memory Solutions



KEY FEATURES

- 2X DDR4 speed
- PMIC for efficient power management
- On-die ECC
- 1.1V lower power consumption
- Up to 256 Gb density with 8-Layer TSV
- RDIMM with precise temperature control

ATP's DDR5 solutions are expected to deliver performance and reliability improvements over the previous generation, especially for critical computing applications.

As the next-generation DRAM specification, DDR5 is poised to exceed DDR4 in every way. DDR5 promises faster performance, higher memory bandwidth, higher densities, and a new power management structure that delivers better power efficiency. All of these advantages, and more, are expected to meet the ever-growing memory needs of present and future applications.

Both DDR4 and DDR5 dual-inline memory modules (DIMMs) still have 288 pins, but with DDR5's higher bandwidth, this means it can transmit data faster. While the pin count is the same, DDR5 DIMMs will not fit in DDR4 sockets as the alignment key is located differently and the pinouts have been changed to accommodate the new features.

Technologies & Add-On Services	Capacity	Speed (MT/s, up to)	VLP/ULP*	30μ" Golden Finger	ATP TDBI	Wide Temperature	Anti-Sulfur Resistors	Conformal Coating	PCB Chamfer
RDIMM	16 GB to 256 GB	4800/5600	●	●	●	▲	▲	-	▲
ECC UDIMM	16 GB to 64 GB	4800/5600	●	●	●	▲	▲	▲	▲
Non-ECC UDIMM	8 GB to 64 GB	4800/5600	-	●	●	▲	▲	▲	▲
ECC SO-DIMM	16 GB to 64 GB	4800/5600	-	●	●	▲	▲	▲	▲
Non-ECC SO-DIMM	8 GB to 64 GB	4800/5600	-	●	●	▲	▲	▲	▲

▲: Optional

Specifications

DDR5					
DIMM Type	RDIMM	ECC UDIMM	Non-ECC UDIMM	ECC SO-DIMM	Non-ECC SO-DIMM
Density	16 GB to 256 GB	16 GB to 64 GB	8 GB to 64 GB	16 GB to 64 GB	8 GB to 64 GB
Speed up to (MT/s)	4800/5600	4800/5600	4800/5600	4800/5600	4800/5600
PCB Height*	Low profile / VLP*	Low profile / VLP*	Low profile	Low profile	Low profile
Operating Temperature	0°C to 85°C / -40°C to 85°C				

* VLP: 0.74"

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WE BUILD WITH YOU

Product spec and its related information are subject to change without advance notice.
Please refer to www.atpinc.com for latest information

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