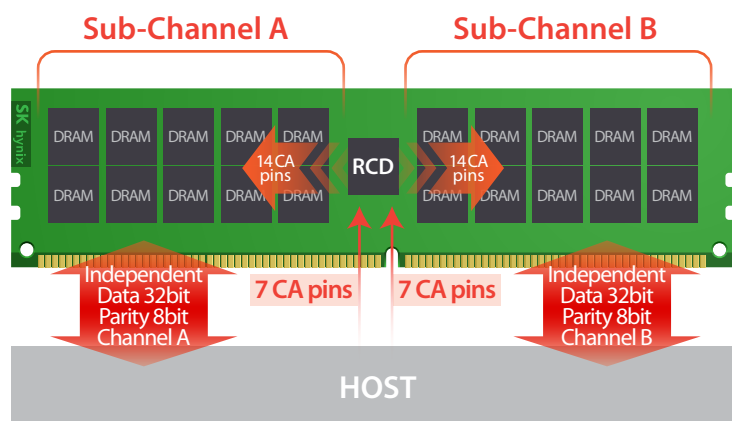


World's First DDR5 RDIMMs

For server and networking solutions

The latest DDR5 DRAM standard turbo-boosts RDIMM module performance and technology for the era of AI and Big Data. SK hynix expects its DDR5 RDIMMs to reach over 8,000Mbps in data rates with research into continued speed enhancements.

Features

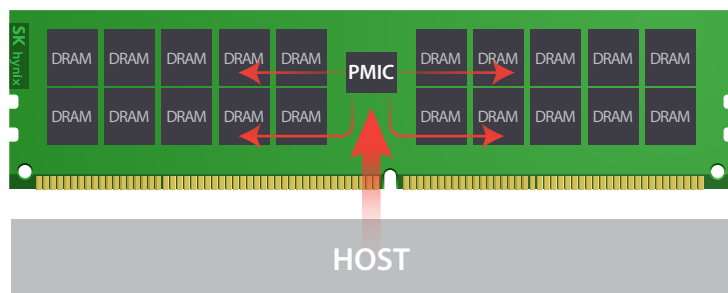
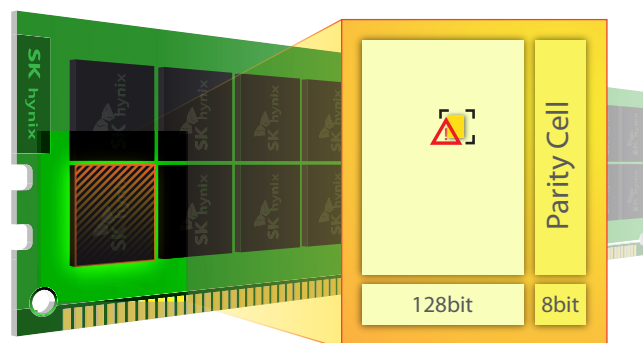


| New Sub-channel DRAM Architecture

The dual sub-channel structure on DDR5 RDIMM allows for an increase in CA pin count, with seven CA buses per sub-channel running at double data rate (DDR) from host to RCD and 14 on a single data rate (SDR) interface from RCD to DRAM, effectively doubling bandwidth over a single DDR4 channel.

| Enhanced Reliability

In-DRAM ECC on the DIMM offloads the system's error correction burden and considerably improves Reliability, Availability, and Serviceability (RAS).



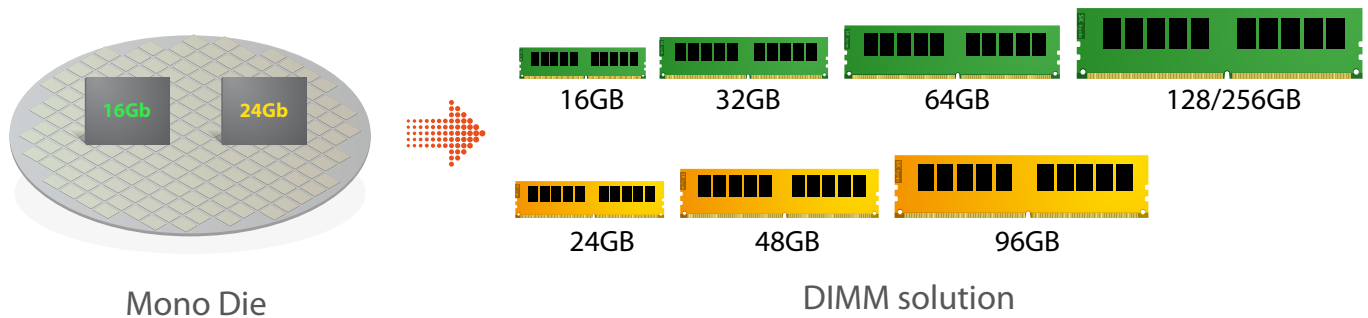
| Stable Power Management

On-board power management IC (PMIC) eliminates the need for external voltage regulation and ensures more stable power provision to the DRAM.



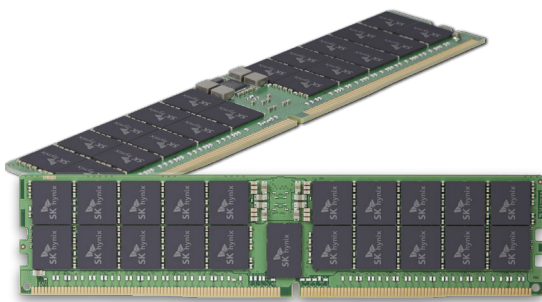
| Diverse Capacities Supported

Higher and flexible single-die density on DDR5, starting from 16Gb and upwards to 24Gb and 32Gb, enables a wide range of low-power, high-capacity DIMMs to be configured.



Product Details

| DDR5 RDIMM



Module Density	16GB, 24GB, 32GB, 48GB, 64GB, 96GB, 128GB, 256GB
Configuration	2Gx80(16GB), 3Gx80(24GB), 4Gx80(32GB), 6Gx80(48GB), 8Gx80(64GB), 12Gx80(96GB), 16Gx80(128GB), 32Gx80(256GB), 4Gx72(32GB), 6Gx72(48GB), 8Gx72(64GB), 12Gx72(96GB)
Package Material	Lead&Halogen Free
Package Type	FCBGA
Data Rate	4,800-6,400Mbps and higher
Data Width	x80(ECC x36), x72(ECC x8)

Performance gains on DDR5 RDIMM enable the same system performance to be reached with fewer servers – delivering the solution envisioned in SK hynix's Memory ForEST* initiative.

*Memory ForEST: (<https://product.skhynix.com/support/forest.go>)

Use Cases

