



# A New Standard DDR for Green Future

## SK hynix's World First DDR5 Server DIMMs

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SK hynix: DDR5 DIMM for Server

# The Next Level of Performance for Big Data and AI

## Overview



## Features

- 1 RDIMMs in **16~256GB** capacities based on 1ynm and 1anm DDR5 from SK hynix, the maker of the world's first DDR5 DRAM
- 2 RDIMM modules with **low-power and high-capacity** for cost saving, which are configurable for each use case and needs with DDR5 mono-die density that supports a wide range from 16Gb to 24Gb and up to 32Gb
- 3 **Up to 8,000Mbps** data rate and 70% more effective bandwidth compared to DDR4
- 4 More **stable power supply** from host to DRAM with on-board Power Management IC (PMIC) on DDR5 RDIMM
- 5 **A double sub-channel** DRAM architecture for 2x bandwidth and higher bus (signal) efficiency compared to a single-channel DDR4 DIMM

## Spec Table

### DDR5 RDIMM

| Module Density | Configuration | Package Type | Data Rate | Data Width |
|----------------|---------------|--------------|-----------|------------|
| 16GB           | 2Gx80         | FCBGA        | 4800      | x80        |
| 24GB           | 3Gx80         | FCBGA        | 4800      | x80        |
| 32GB           | 4Gx80         | FCBGA        | 4800      | x80        |
| 32GB           | 4Gx72         | FCBGA        | 4800      | x72        |
| 48GB           | 6Gx80         | FCBGA        | 4800      | x80        |
| 48GB           | 6Gx72         | FCBGA        | 4800      | x72        |
| 64GB           | 8Gx80         | FCBGA        | 4800      | x80        |
| 64GB           | 8Gx72         | FCBGA        | 4800      | x72        |
| 96GB           | 12Gx80        | FCBGA        | 4800      | x80        |
| 96GB           | 12Gx72        | FCBGA        | 4800      | x72        |
| 128GB          | 16Gx80        | FCBGA        | 4800      | x80        |
| 256GB          | 32Gx80        | FCBGA        | 4800      | x80        |
| 16GB           | 2Gx80         | FCBGA        | 5600      | x80        |
| 24GB           | 3Gx80         | FCBGA        | 5600      | x80        |
| 32GB           | 4Gx80         | FCBGA        | 5600      | x80        |
| 32GB           | 4Gx72         | FCBGA        | 5600      | x72        |
| 48GB           | 6Gx80         | FCBGA        | 5600      | x80        |
| 48GB           | 6Gx72         | FCBGA        | 5600      | x72        |
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