



## DDR5 RDIMM

### Introduction

The DDR5 RDIMMs are based on the JEDEC Raw Card. They have undergone meticulous optimization and simulation to achieve a design with independent intellectual property. In addition, the hardware is made from materials with excellent high-frequency performance, including reliable and temperature-resistant components, and featuring DDR5 chips produced using original mature processes. They support an 80-bit width and ECC error correction and their reliability and stability meet the requirements of data center products.

### Features

- **Capacity:** DDR5 32GB / 64GB / 96GB
- **Speed:** 4800~5600MT/s
- **Operating Temp:** 0~85°C(Ext.: 95°C)
- **Width:** x80bit
- **Organization:** 1 Rank x4 / 2 Rank x4 / 2 Rank x8
- VDD/VDDQ = 1.1V (+66mV / -33mV)
- VPP = 1.8V (+108mV / -54mV)
- VDD SPD = 1.8V

This version is to be updated on January 31th, 2024. Actual conditions are subject to the Longsys website.

## Highlights

- Independently developed by Longsys, the PCBs enhance signal quality and reduce noise from the power supply.
- Components featuring high temperature tolerance help to ensure product reliability and stability.
- Sufficient RMT margin ensures data transmission quality.
- The product has undergone rigorous testing processes at temperatures of up to 85°C.
- The product has passed JEDEC's complete set of reliability standard tests.
- The onboard power management integrated circuits (PMICs) ensure better power support and increased reliability.
- The application of the I3C bus SPD hub enables more memory status interactions and management.
- The independent dual 32-bit sub-channel design reduces latency and enhances channel performance.
- On-die ECC functionality improves reliability and reduces failure rates through internal DRAM error correction.
- More temperature sensors are strategically placed to allow precise control of system cooling.

## Application



Servers



Distributed Storage



Cloud Computing



Edge Computing



Communication  
Base Stations



Workstations

## Product Catalog

DIMM Type	RDIMM				
Part No.	RES56HAC032G8-M1P2	RES56HAA032G8-M1P2	RES56HAB064G8-M1P1	RES56HMB096G8-M1P1	RES56MBB096G8-M1P1
DDR	DDR5	DDR5	DDR5	DDR5	DDR5
Density	32GB	32GB	64GB	96GB	96GB
Rank X Org	1 Rank x4	2 Rank x8	2 Rank x4	2 Rank x4	2 Rank x4
Speed	4800~5600MT/s	4800~5600MT/s	4800~5600MT/s	4800~5600MT/s	4800~5600MT/s
Voltage	1.1V	1.1V	1.1V	1.1V	1.1V
Number of Pins	288pin	288pin	288pin	288pin	288pin

\*The data comes from internal test. The actual performance may vary due to equipment differences.