



RU200 DDR5 Memory



Up to
5600 MB/s



Low Power
Consumption



PMIC



On-Die ECC

Biwin RU200 DDR5 offers speeds up to 5600 MT/s, delivering exceptional performance and efficiency for IO-intensive tasks. Its low operating voltage of 1.1 Volts reduces heat and power consumption by 20% compared to DDR4, ensuring stable performance. Enhanced with advanced PMIC and On-Die ECC (error correction), Biwin RU200 improves data speed and bandwidth, making life easier for anyone confronting intensive applications.

► Product Features

High Performance, Enhanced Efficiency

The new DDR5 standard improves access efficiency and delivers faster data processing speeds to meet the demands of more IO-intensive computing tasks. It ensures smooth operation for office work, modeling, editing, and gaming.

Low Power Consumption

Biwin RU200 offers high efficiency due to a lower power consumption with an operating voltage as low as 1.1 Volts. Compared to DDR4, the heat generated in memory operation is reduced, decreasing the need of cooling and ensuring a more stable operation under high-intensive conditions.

PMIC, Stable Data Transmission

Biwin RU200 is equipped with a power management IC (PMIC), which is integrated on the memory PCB. It shortens the wiring distance and improves power management efficiency and stability. It provides data integrity and also offers higher MT/s solutions.

On-Die ECC, Improved Data Accuracy

Biwin RU200 uses On-Die ECC (error correction) to enhance data accuracy. This advanced technology dynamically corrects data failure, significantly reducing the risk of data corruption and ensuring memory stability and reliability.

► Biwin Storage

For decades, Biwin has made the critical storage and memory in many of the leading digital devices that have defined our digital world. The Biwin consumer brand offers the best of Biwin's experience, a range of SSDs, DRAM, memory cards and related accessories that will help you get the most out of your devices.

Our cutting-edge facilities use the latest technologies including our own chip packaging, software and hardware labs, state-of-the-art clean rooms, and our own award-winning manufacturing equipment. We are especially proud of our extraordinary rigorous chain of testing that assures we're offering you the best in reliability.

► Specifications

| | |
|-----------------------|---|
| Model Name | Biwin RU200 |
| RAM Type | DDR5 UDIMM |
| Capacity | 16 GB (16 GB x 1) / 32 GB (32 GB x 1) |
| Data Rate | 4800 / 5600 MT/s |
| Timing | CL40 / CL46 |
| Rank | 1R x 8 / 2R x 8 |
| Operating Voltage | 1.10 V |
| Pin | 288 Pin |
| Dimensions | 133.35 x 31.25 x 4.00 mm (max) |
| Operating Temperature | 0°C to +85°C |
| Storage Temperature | -55°C to +100°C |
| Certifications | FCC, CE, KCC, BMSI, RCM, WEEE, RoHS, UKCA, VCCI |
| Warranty | Limited Lifetime |

► Order Information

| Part Number | Capacity | Rank | Data Rate (MT/s) | Timing | Voltage | Warranty |
|---------------|----------|--------|------------------|---------------|---------|----------|
| BD5UD16G48C40 | 16 GB | 1R x 8 | DDR5-4800 | CL40-39-39-77 | 1.10 V | Lifetime |
| BD5UD16G56C46 | 16 GB | 1R x 8 | DDR5-5600 | CL46-45-45-89 | 1.10 V | Lifetime |
| BD5UD32G48C40 | 32 GB | 2R x 8 | DDR5-4800 | CL40-39-39-77 | 1.10 V | Lifetime |
| BD5UD32G56C46 | 32 GB | 2R x 8 | DDR5-5600 | CL46-45-45-89 | 1.10 V | Lifetime |

1. Tested by BIWIN labs. Actual performance may vary due to systems, devices, or environment.

2. Maintenance and future updates are required throughout the product lifecycle. Specifications are subject to change without notice.

3. The pictures are for illustration only. Actual products may vary due to product enhancements or changes.

4. Not all products are sold in all regions of the world.

5. Instructions for purchasing high-frequency memory: Overclocking memory needs to be equipped with a matching motherboard and processor to exert its overclocking performance. Please verify prior to purchase whether your motherboard and CPU support the specifications of Biwin DRAM. Activate XMP after installation to enjoy the overclocking speed.

6. For detailed compatibility information, including supported motherboards and validated configurations, please refer to the official memory module compatibility list (QVL). We recommend reviewing the list before purchase to ensure optimal integration and performance.

7. Please visit www.biwintech.com for more details.

Global Headquarters:

BIWIN STORAGE TECHNOLOGY CO., LTD.

Building #4, South Zone #2, Zhongguan Honghualing Industrial Zone,

Nanshan District, Shenzhen, Guangdong, China

support@biwintech.com

www.biwintech.com

America Headquarters:

BIWIN TECHNOLOGY LLC

8725 NW 18th Terrace Suite 400, Miami, FL 33172, U.S.A

+1 (305) 456-3288

BIWIN SEMICONDUCTOR (HK) COMPANY LIMITED (Taipei Office)

2nd Floor, No. 158, Xinhua 2nd Road, Neihu District, Taipei City 114, Taiwan

+886 (2) 2795-282



**Lifetime
Warranty**