



# DDR5 UDIMM Memory



Up to  
5600 MB/s



Low Power  
Consumption



PMIC



On-Die ECC

Biwin DDR5 UDIMMs offer speed 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 UDIMMs improve 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 UDIMMs offer 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 UDIMMs are 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 UDIMMs use 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 UDIMM
RAM Type	DDR5
Capacity	16 GB / 32 GB
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	CE, FCC, RoHS, VCCI, RCM, UKCA
Warranty	Limited Lifetime*

## ► Order Information

Part Number	Capacity	Rank	Data Rate (MT/s)	Timing	Voltage	Warranty
BD5UD16G48C40	16 GB	1R* 8	DDR5-4800	CL40-39-39-77	1.10 V	Lifetime
BD5UD16G56C46	16 GB	1R* 8	DDR5-5600	CL46-45-45-89	1.10 V	Lifetime
BD5UD32G48C40	32 GB	2R* 8	DDR5-4800	CL40-39-39-77	1.10 V	Lifetime
BD5UD32G56C46	32 GB	2R* 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 life cycle. 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. As used for storage capacity, one megabyte (MB)= one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on the operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabyte per second (GB/s) = one billion bytes per second.
6. For more details, please visit [www.biwintech.com](http://www.biwintech.com).

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