



DDR5 SODIMM Memory



Up to
5600 MB/s



Low Power
Consumption



Durability



On-Die ECC

Biwin DDR5 SODIMMs enable easier multitasking with data rates up to 5600 MT/s. In addition to better efficiency, the energy consumption with an operating voltage of 1.1 Volts is lower compared to DDR4. A PMIC and selected premium ICs are used to ensure stable data transfers and improve reliability. Biwin SODIMMs are compatible with DDR5 laptops and mini PCs (NUC) from manufacturers like Lenovo, HP, ASUS, Acer, MSI, etc.

► Product Features

High Performance, Better 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. DDR5 supports high-performance AI computing which is needed for deep learning model training.

Low Power Consumption

Biwin SODIMMs offer high efficiency using 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 for cooling and ensuring stability under high-intensity operations.

PMIC, More Stable Data Transmission

Biwin SODIMMs 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

On-Die ECC (error correction) is offered with Biwin SODIMMs to improve data safety. The introduction of On-Die ECC (error correction) can dynamically correct data access failure, reducing the risk of data loss 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	Biwin SODIMM
RAM Type	DDR5 SODIMM
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
Voltage	1.10 V
Pin	262 Pin
Dimensions	69.60 x 30.00 x 3.80 mm (max)
Operating Temperature	0°C to +85°C
Storage Temperature	-55°C to +100°C
Certifications	CE, FCC, RoHS, VCCI, RCM, BSMI, UKCA
Warranty	Limited Lifetime*

► Order Information

Part Number	Capacity	Rank	Data Rate (MT/s)	Timing	Voltage	Warranty
BD5SD16G48C40	16 GB	1R* 8	DDR5-4800	CL40-39-39-77	1.10 V	Lifetime
BD5SD16G56C46	16 GB	1R* 8	DDR5-5600	CL46-45-45-90	1.10 V	Lifetime
BD5SD32G48C40	32 GB	2R* 8	DDR5-4800	CL40-39-39-77	1.10 V	Lifetime
BD5SD32G56C46	32 GB	2R* 8	DDR5-5600	CL46-45-45-90	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.

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