



# Black Opal DW100 DDR5 RGB Memory



Up to  
8400 MT/s



Efficient Heat  
Dissipation

**PMIC**

Unlocked  
PMIC



Support for  
Intel & AMD

Unlock your overclocking potential with Biwin DW100 DDR5 RGB Memory. Biwin DW100 delivers up to 8400 MT/s, ensuring top-tier performance for gaming, creative work, and productivity tasks. Its advanced cooling system guarantees consistent stability, even under heavy loads. Dynamic RGB lighting adds visually striking elements to your setup.

## ► Product Features

### Unleash Peak Performance at 8400MT/s

Experience the cutting-edge power of DDR5 with Biwin DW100. Super-fast speeds and processing power come together to speed up your most demanding gaming, creative, and professional tasks.

### Steady Thermal Management

Biwin DW100's three-fin cooling design maximizes the surface area for better heat dissipation. The heat dissipation architecture, preventing overheating, ensures significant thermal control and stable operation even under intense workloads.

### Color Your Gaming with RGB Lighting

Biwin DW100 features premium RGB lighting effects that deliver vivid uniform illumination. Compatible with major motherboard lighting control software, the dynamic system allows users to switch between various modes such as static and breathing modes easily.

### Supporting Intel & AMD, Easier One-click Overclocking

Supporting both Intel and AMD, Biwin DW100 brings you top-tier overclocking potential while maintaining stability and extraordinary speed. The unlocked PMIC and a durable 10-layer PCB offer optimized power delivery, ensuring your system performs best.

# ► Biwin Storage Black Opal Series

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.

Biwin Black Opal is especially designed for gamers, enthusiasts, modders and overclockers seeking top-tier performance. It is the result of years of experience in SSDs and DRAM manufacturing. The durability matches the more strenuous needs of gamers, content providers and professional users.

## ► Specifications

|                       |                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------|
| Model Name            | Biwin Black Opal DW100                                                                           |
| RAM Type              | DDR5 RGB UDIMM                                                                                   |
| Color                 | Black / White                                                                                    |
| Capacity              | 16 GB: 16 GB x 1<br>32 GB: 16 GB x 2<br>48 GB: 24 GB x 2<br>64 GB: 32 GB x 2<br>96 GB: 48 GB x 2 |
| Data Rate             | 6000 / 6400 / 6600 / 6800 / 7200 / 7600 / 8000 / 8200 / 8400 MT/s                                |
| Timing                | CL28 / CL30 / CL32 / CL34 / CL36 / CL40                                                          |
| Rank                  | 1R x 8 / 2R x 8                                                                                  |
| Operating Voltage     | 1.35 V / 1.40 V / 1.45 V                                                                         |
| Dimensions            | 136.19 x 50.24 x 8.40 mm                                                                         |
| Operating Temperature | 0°C to +85°C                                                                                     |
| Storage Temperature   | -40°C to +85°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 | Package      | Color | Warranty |
|-------------------------|----------|--------|------------------|----------------|---------|--------------|-------|----------|
| BXL51660DW1-S28FB       | 16 GB    | 1R x 8 | 6000             | CL28-35-35-72  | 1.4 V   | 16 GB x 1pcs | Black | Lifetime |
| BXL51660DW1-S28FW       | 16 GB    | 1R x 8 | 6000             | CL28-35-35-72  | 1.4 V   | 16 GB x 1pcs | White | Lifetime |
| BXL53260DW1-D28FB       | 32 GB    | 1R x 8 | 6000             | CL28-35-35-72  | 1.4 V   | 16 GB x 2pcs | Black | Lifetime |
| BXL53260DW1-D28FW       | 32 GB    | 1R x 8 | 6000             | CL28-35-35-72  | 1.4 V   | 16 GB x 2pcs | White | Lifetime |
| B5DW100326030ER2G-CB001 | 32 GB    | 1R x 8 | 6000             | CL30-38-38-76  | 1.35 V  | 16 GB x 2pcs | Black | Lifetime |
| B5DW100326030ER2G-CW001 | 32 GB    | 1R x 8 | 6000             | CL30-38-38-76  | 1.35 V  | 16 GB x 2pcs | White | Lifetime |
| BXL53260DW1-D36DB       | 32 GB    | 1R x 8 | 6000             | CL36-45-45-96  | 1.3 V   | 16 GB x 2pcs | Black | Lifetime |
| BXL53260DW1-D36DW       | 32 GB    | 1R x 8 | 6000             | CL36-45-45-96  | 1.3 V   | 16 GB x 2pcs | White | Lifetime |
| B5DW100326832FR2G-CB004 | 32 GB    | 1R x 8 | 6800             | CL32-45-45-108 | 1.4 V   | 16 GB x 2pcs | Black | Lifetime |
| B5DW100326832FR2G-CW004 | 32 GB    | 1R x 8 | 6800             | CL32-45-45-108 | 1.4 V   | 16 GB x 2pcs | White | Lifetime |
| B5DW100327234FR2G-CB005 | 32 GB    | 1R x 8 | 7200             | CL34-45-45-115 | 1.4 V   | 16 GB x 2pcs | Black | Lifetime |
| B5DW100327234FR2G-CW005 | 32 GB    | 1R x 8 | 7200             | CL34-45-45-115 | 1.4 V   | 16 GB x 2pcs | White | Lifetime |
| B5DW100328036GR2G-CB007 | 32 GB    | 1R x 8 | 8000             | CL36-48-48-126 | 1.45 V  | 16 GB x 2pcs | Black | Lifetime |
| B5DW100328036GR2G-CW007 | 32 GB    | 1R x 8 | 8000             | CL36-48-48-126 | 1.45 V  | 16 GB x 2pcs | White | Lifetime |
| BXL53280DW1-D36GB       | 32 GB    | 1R x 8 | 8000             | CL36-48-48-126 | 1.45 V  | 16 GB x 2pcs | Black | Lifetime |
| BXL53280DW1-D36GW       | 32 GB    | 1R x 8 | 8000             | CL36-48-48-126 | 1.45 V  | 16 GB x 2pcs | White | Lifetime |
| BXL53282DW1-D38GB       | 32 GB    | 1R x 8 | 8200             | CL38-48-48-126 | 1.45 V  | 16 GB x 2pcs | Black | Lifetime |
| BXL53282DW1-D38GW       | 32 GB    | 1R x 8 | 8200             | CL38-48-48-126 | 1.45 V  | 16 GB x 2pcs | White | Lifetime |
| BXL53282DW1-D36GB       | 32 GB    | 1R x 8 | 8200             | CL36-47-47-126 | 1.45 V  | 16 GB x 2pcs | Black | Lifetime |
| BXL53282DW1-D36GW       | 32 GB    | 1R x 8 | 8200             | CL36-47-47-126 | 1.45 V  | 16 GB x 2pcs | White | Lifetime |
| BXL54860DW1-D28FB       | 48 GB    | 1R x 8 | 6000             | CL28-36-36-72  | 1.4 V   | 24 GB x 2pcs | Black | Lifetime |
| BXL54860DW1-D28FW       | 48 GB    | 1R x 8 | 6000             | CL28-36-36-72  | 1.4 V   | 24 GB x 2pcs | White | Lifetime |
| B5DW100486834ER2G-CB009 | 48 GB    | 1R x 8 | 6800             | CL34-46-46-108 | 1.35 V  | 24 GB x 2pcs | Black | Lifetime |
| B5DW100486834ER2G-CW009 | 48 GB    | 1R x 8 | 6800             | CL34-46-46-108 | 1.35 V  | 24 GB x 2pcs | White | Lifetime |
| B5DW100487236ER2G-CB010 | 48 GB    | 1R x 8 | 7200             | CL36-46-46-115 | 1.35 V  | 24 GB x 2pcs | Black | Lifetime |
| B5DW100487236ER2G-CW010 | 48 GB    | 1R x 8 | 7200             | CL36-46-46-115 | 1.35 V  | 24 GB x 2pcs | White | Lifetime |
| BXL54882DW1-D40FB       | 48 GB    | 1R x 8 | 8200             | CL40-50-50-126 | 1.4 V   | 24 GB x 2pcs | Black | Lifetime |
| BXL54882DW1-D40FW       | 48 GB    | 1R x 8 | 8200             | CL40-50-50-126 | 1.4 V   | 24 GB x 2pcs | White | Lifetime |
| BXL54884DW1-D40FB       | 48 GB    | 1R x 8 | 8400             | CL40-52-52-126 | 1.4 V   | 24 GB x 2pcs | Black | Lifetime |
| BXL54884DW1-D40FW       | 48 GB    | 1R x 8 | 8400             | CL40-52-52-126 | 1.4 V   | 24 GB x 2pcs | White | Lifetime |

|                         |       |        |      |               |        |              |       |          |
|-------------------------|-------|--------|------|---------------|--------|--------------|-------|----------|
| BXL56460DW1-D28FB       | 64 GB | 1R × 8 | 6000 | CL28-35-35-72 | 1.4 V  | 32 GB x 2pcs | Black | Lifetime |
| BXL56460DW1-D28FW       | 64 GB | 1R × 8 | 6000 | CL28-35-35-72 | 1.4 V  | 32 GB x 2pcs | White | Lifetime |
| B5DW100646030ER2G-CB013 | 64 GB | 2R × 8 | 6000 | CL30-38-38-76 | 1.35 V | 32 GB x 2pcs | Black | Lifetime |
| B5DW100646030ER2G-CW013 | 64 GB | 2R × 8 | 6000 | CL30-38-38-76 | 1.35 V | 32 GB x 2pcs | White | Lifetime |
| BXL59660DW1-D28EB       | 96 GB | 2R × 8 | 6000 | CL28-36-36-72 | 1.4 V  | 48 GB x 2pcs | Black | Lifetime |
| BXL59660DW1-D28EW       | 96 GB | 2R × 8 | 6000 | CL28-36-36-72 | 1.4 V  | 48 GB x 2pcs | White | 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](http://www.biwintech.com) for more details.

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**Lifetime  
Warranty**