



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 you'll find 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 | 32 GB (16 GB x 2) 48 GB (24 GB x 2) 64 GB (22 GB x 2) |
| Data Rate | 6000 / 6400 / 6800 / 7200 / 8000 / 8200 / 8400 MT/s |
| Timing | 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 | CE, FCC, RoHS, VCCI, RCM, BSMI, UKCA |
| Warranty | Limited Lifetime |

► Order Information

| Part Number | Capacity | Rank | Data Rate (MT/s) | Timing | Voltage | Package | Color | Intel XMP 3.0 & AMD E.X.P.O Support | Exclusive to Z890 & X870 |
|-------------------------|----------|------|------------------|----------------|---------|-----------|-------|-------------------------------------|--------------------------|
| B5DW100326030ER2G-CB001 | 32GB | 1R*8 | 6000 | CL30-38-38-76 | 1.35V | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100326030ER2G-CW001 | 32GB | 1R*8 | 6000 | CL30-38-38-76 | 1.35V | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100326432FR2G-CB002 | 32GB | 1R*8 | 6400 | CL32-39-39-102 | 1.4V | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100326432FR2G-CW002 | 32GB | 1R*8 | 6400 | CL32-39-39-102 | 1.4V | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100326634FR2G-CB003 | 32GB | 1R*8 | 6600 | CL34-40-40-105 | 1.4V | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100326634FR2G-CW003 | 32GB | 1R*8 | 6600 | CL34-40-40-105 | 1.4V | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100326832FR2G-CB004 | 32GB | 1R*8 | 6800 | CL32-45-45-108 | 1.4V | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100326832FR2G-CW004 | 32GB | 1R*8 | 6800 | CL32-45-45-108 | 1.4V | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100327234FR2G-CB005 | 32GB | 1R*8 | 7200 | CL34-45-45-115 | 1.4V | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100327234FR2G-CW005 | 32GB | 1R*8 | 7200 | CL34-45-45-115 | 1.4V | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100327636FR2G-CB006 | 32GB | 1R*8 | 7600 | CL36-46-46-121 | 1.4V | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100327636FR2G-CW006 | 32GB | 1R*8 | 7600 | CL36-46-46-121 | 1.4V | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100328036GR2G-CB007 | 32GB | 1R*8 | 8000 | CL36-48-48-126 | 1.45V | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | No |

| | | | | | | | | | |
|-------------------------|------|------|------|-----------------|-------|-----------|-------|-------------------|-----|
| B5DW100328036GR2G-CW007 | 32GB | 1R*8 | 8000 | CL36-48-48-126 | 1.45V | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | No |
| BXL53280DW1-D36GB | 32GB | 1R*8 | 8000 | CL36-48-48-126 | 1.45 | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | Yes |
| BXL53280DW1-D36GW | 32GB | 1R*8 | 8000 | CL36-48-48-126 | 1.45 | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | Yes |
| BXL53282DW1-D38GB | 32GB | 1R*8 | 8200 | CL38-48-48-126 | 1.45V | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | Yes |
| BXL53282DW1-D38GW | 32GB | 1R*8 | 8200 | CL38-48-48-126 | 1.45V | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | Yes |
| BXL53282DW1-D36GB | 32GB | 1R*8 | 8200 | CL36-47-47-126 | 1.45V | 16GBX2pcs | Black | XMP 3.0 & E.X.P.O | Yes |
| BXL53282DW1-D36GW | 32GB | 1R*8 | 8200 | CL36-47-47-126 | 1.45V | 16GBX2pcs | White | XMP 3.0 & E.X.P.O | Yes |
| B5DW100486432ER2G-CB008 | 48GB | 1R*8 | 6400 | CL32-39-39-102 | 1.35V | 24GBx2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100486432ER2G-CW008 | 48GB | 1R*8 | 6400 | CL32-39-39-102 | 1.35V | 24GBx2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100486834ER2G-CB009 | 48GB | 1R*8 | 6800 | CL 34-46-46-108 | 1.35V | 24GBx2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100486834ER2G-CW009 | 48GB | 1R*8 | 6800 | CL 34-46-46-108 | 1.35V | 24GBx2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100487236ER2G-CB010 | 48GB | 1R*8 | 7200 | CL36-46-46-115 | 1.35V | 24GBx2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100487236ER2G-CW010 | 48GB | 1R*8 | 7200 | CL36-46-46-115 | 1.35V | 24GBx2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100488040ER2G-CB011 | 48GB | 1R*8 | 8000 | CL40-48-48-128 | 1.35V | 24GBx2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100488040ER2G-CW011 | 48GB | 1R*8 | 8000 | CL40-48-48-128 | 1.35V | 24GBx2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100488240FR2G-CB012 | 48GB | 1R*8 | 8200 | CL40-50-50-132 | 1.4V | 24GBx2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100488240FR2G-CW012 | 48GB | 1R*8 | 8200 | CL40-50-50-132 | 1.4V | 24GBx2pcs | White | XMP 3.0 & E.X.P.O | No |
| BXL54880DW1-D38FB | 48GB | 1R*8 | 8000 | CL38-48-48-126 | 1.4V | 24GBX2pcs | Black | XMP 3.0 & E.X.P.O | Yes |
| BXL54880DW1-D38FW | 48GB | 1R*8 | 8000 | CL38-48-48-126 | 1.4V | 24GBX2pcs | White | XMP 3.0 & E.X.P.O | Yes |
| BXL54882DW1-D40FB | 48GB | 1R*8 | 8200 | CL40-50-50-126 | 1.4V | 24GBX2pcs | Black | XMP 3.0 & E.X.P.O | Yes |
| BXL54882DW1-D40FW | 48GB | 1R*8 | 8200 | CL40-50-50-126 | 1.4V | 24GBX2pcs | White | XMP 3.0 & E.X.P.O | Yes |
| BXL54884DW1-D40FB | 48GB | 1R*8 | 8400 | CL40-52-52-126 | 1.4V | 24GBX2pcs | Black | XMP 3.0 & E.X.P.O | Yes |
| BXL54884DW1-D40FW | 48GB | 1R*8 | 8400 | CL40-52-52-126 | 1.4V | 24GBX2pcs | White | XMP 3.0 & E.X.P.O | Yes |
| B5DW100646030ER2G-CB013 | 64GB | 2R*8 | 6000 | CL30-38-38-76 | 1.35V | 32GBx2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100646030ER2G-CW013 | 64GB | 2R*8 | 6000 | CL30-38-38-76 | 1.35V | 32GBx2pcs | White | XMP 3.0 & E.X.P.O | No |
| B5DW100646432FR2G-CB014 | 64GB | 2R*8 | 6400 | CL32-39-39-102 | 1.4V | 32GBX2pcs | Black | XMP 3.0 & E.X.P.O | No |
| B5DW100646432FR2G-CW014 | 64GB | 2R*8 | 6400 | CL32-39-39-102 | 1.4V | 32GBX2pcs | White | XMP 3.0 & E.X.P.O | No |

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. 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 what you want to buy. Activate XMP after installation to enjoy the overclocking speed.
7. For more details, please visit www.biwintech.com.

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 Terrece Suite 400, Miami, FL 33172, U.S.A
 +1 (305) 456-3288

BIWIN SEMICONDUCTOR (HK) COMPANY LIMITED (Taipei Office)
 2nd Floor, No. 158, Xindu 2nd Road, Neihu District, Taipei City 114, Taiwan
 +886 (2) 2795-282

