



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 32 GB: 16 GB x 2 48 GB: 24 GB x 2 64 GB: 32 GB x 2 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 for more details.

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Scatola	Manuale	Vaschetta
PAP 21	PAP 22	PET 1 EVA 7
Carta	Carta	Plastica
RACCOLTA DIFFERENZIATA Verifica le disposizioni del tuo Comune. Separa le componenti e conferiscile in modo corretto.		

Statement Regarding the Data Rates of Memory Products

The maximum data rates indicated for memory products are overclocking performance metrics achievable under specific conditions and are not the default out-of-the-box frequencies. Please find the complete details below:

1 INTEL® XMP/ AMD EXPO™ Function Must Be Enabled

This product is an overclocking-type memory module. The stated maximum data rate can only be achieved by manually enabling INTEL® XMP or AMD EXPO™ in the motherboard BIOS. If this function is not enabled, the memory will run at the default JEDEC standard frequency and will not reach its stated maximum performance.

2 Any Stated Data Rate Depends on Hardware Compatibility

Achieving the stated maximum data rate depends on system hardware and software conditions, including the CPU model, motherboard chipset, BIOS version, and memory slot configuration. Before purchasing, please be sure to consult the official QVL (Qualified Vendor List) and compatibility notes to confirm that your hardware configuration is supported.

3 Risk Warning for Overclocking and Additional Settings

This product comes with preset overclocking parameters as determined by extensive testing in our labs. Manual overclocking beyond the official presets (including adjusting frequency, timings, voltage, etc.) is not recommended. Unauthorized custom operations may lead to:

- System instability, blue screens, crashes, or restarts
- Damage to memory, CPU, motherboard, or other hardware
- Data loss, file corruption, or system crashes
- Voiding of the product warranty

4 Performance Description and Advertising Compliance Statement

All stated performance parameters that accompany our products are test results obtained under ideal laboratory conditions. They are provided for product specification purposes only and do not constitute a promise or guarantee of any user's actual operational results, speed, or stability. Actual operating frequencies and performance may vary due to differences in equipment; no absolute uniform effect is guaranteed.

5 Limitation of Liability

The company and its authorized distributors shall not be liable for breach of contract or tort for any direct or indirect losses (including but not limited to hardware damage, data loss, business interruption, or failure to achieve stated performance) resulting from failure to operate according to instructions, failure to enable XMP/E.X.P.O, hardware incompatibility, unauthorized overclocking, improper system settings, or other related causes. Product warranty is subject to the official warranty terms; improper operation will void the warranty.

By confirming the purchase, installing, or using this product, the user is deemed to have read, understood, and agreed to all terms of this statement, and to be fully aware of the conditions required to achieve the performance of overclocked memory and the associated potential risks. If you have any questions regarding product specifications, usage conditions, or compatibility, please contact official technical support before purchasing.