



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	32 GB: 16 GB x 2 48 GB: 24 GB x 2 64 GB: 32 GB x 2
Data Rate	6000 / 6400 / 6600 / 6800 / 7200 / 7600 / 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.

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