



# Black Opal HX100 DDR5 Memory



One-Click  
Overclocking



PMIC



Premium  
DRAM ICs



Optimized Heat  
Dissipation

Biwin HX100 DDR5 High-Performance Memory with great overclocking potential stands out with its exceptional design aesthetics and strong performance. HX100 has won the “Oscars” of the design world – the German Red Dot Award. Combining design excellence, efficient heat dissipation, advanced PMIC and high-quality ICs HX100 is compatible with major platforms. The HX100 modules are perfect for overclocking enthusiasts, PC builders and competitive gamers, ensuring top-tier performance in intense scenarios.

## ► Product Features

### Premium Heat Dissipation, Stable Overclocking

The special design of Biwin HX100 features a high-efficient thermal conductive silicone pad and the highest-grade aluminum heat spreader with parallel cooling fins, forming an armor that combines aesthetics with cooling efficiency.

### PMIC, Unlocked Voltage

Equipped with an unlocked PMIC for better overclocking, Biwin HX100 offers a continuous and stable power delivery, satisfying your exploration of memory overclocking.

### DDR5 Overclocking, Superior Gaming Performance

With gaming-grade performance, high frequency, and low latency, HX100 is designed for gamers and overclocking enthusiasts, supporting intense competitions.

### Supporting XMP 3.0 and AMD EXPO

Biwin HX100 supports overclocking with XMP 3.0 and AMD EXPO to unlock high-speed with one click, and to help you outpace your gaming competitors right from the start.

## ► 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 quality is top tier and results from a fusion of technological experiences. The durability matches the more strenuous needs of gamers, content providers and professional users.

## ► Specifications

Model Name	Biwin Black Opal HX100
RAM Type	DDR5
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 MT/s
Timing	CL30 / CL32 / CL34 / CL36
Rank	1R x 8 / 2R x 8
Operating Voltage	1.35 V / 1.4 V
Pin	288 Pin
Dimensions	136.60 x 47.00 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	Timing	Voltage	Package	Color
B5HX100326030ER2G-BB001	32 GB	1R *8	6000 MT/s	CL30-38-38-76	1.35 V	16 GB x 2 pcs	Black
B5HX100326436ER2G-BB009	32 GB	1R *8	6400 MT/s	CL36-48-48-102	1.35 V	16 GB x 2 pcs	Black
B5HX100326436ER2G-BS009	32 GB	1R *8	6400 MT/s	CL36-48-48-102	1.35 V	16 GB x 2 pcs	Silver
B5HX100326432FR2G-BB002	32 GB	1R *8	6400 MT/s	CL32-39-39-102	1.4 V	16 GB x 2 pcs	Black
B5HX100326634FR2G-BB004	32 GB	1R *8	6600 MT/s	CL34-40-40-105	1.4 V	16 GB x 2 pcs	Black
B5HX100326834FR2G-BB003	32 GB	1R *8	6800 MT/s	CL34-45-45-108	1.4 V	16 GB x 2 pcs	Black
B5HX100327234FR2G-BB005	32 GB	1R *8	7200 MT/s	CL34-45-45-115	1.4 V	16 GB x 2 pcs	Black



B5HX100326030ER2G-BS001	32 GB	1R *8	6000 MT/s	CL30-38-38-76	1.35 V	16 GB x 2 pcs	Silver
B5HX100326432FR2G-BS002	32 GB	1R *8	6400 MT/s	CL32-39-39-102	1.4 V	16 GB x 2 pcs	Silver
B5HX100326634FR2G-BS004	32 GB	1R *8	6600 MT/s	CL34-40-40-105	1.4 V	16 GB x 2 pcs	Silver
B5HX100326834FR2G-BS003	32 GB	1R *8	6800 MT/s	CL34-45-45-108	1.4 V	16 GB x 2 pcs	Silver
B5HX100327234FR2G-BS005	32 GB	1R *8	7200 MT/s	CL34-45-45-115	1.4 V	16 GB x 2 pcs	Silver
B5HX100646030ER2G-BB006	64 GB	2R *8	6000 MT/s	CL30-38-38-76	1.35 V	32 GB x 2 pcs	Black
B5HX100646030ER2G-BS006	64 GB	2R *8	6000 MT/s	CL30-38-38-76	1.35 V	32 GB x 2 pcs	Silver
B5HX100646432FR2G-BB007	64 GB	2R *8	6400 MT/s	CL32-39-39-102	1.4 V	32 GB x 2 pcs	Black
B5HX100646432FR2G-BS007	64 GB	2R *8	6400 MT/s	CL32-39-39-102	1.4 V	32 GB x 2 pcs	Silver
B5HX100486432ER2G-BB010	48 GB	1R *8	6400 MT/s	CL32-39-39-102	1.35V	24 GB x 2 pcs	Black
B5HX100486432ER2G-BS010	48 GB	1R *8	6400 MT/s	CL32-39-39-102	1.35V	24 GB x 2 pcs	Silver
B5HX100486834ER2G-BB011	48 GB	1R *8	6800 MT/s	CL34-46-46-108	1.35 V	24 GB x 2 pcs	Black
B5HX100486834ER2G-BS011	48 GB	1R *8	6800 MT/s	CL34-46-46-108	1.35V	24 GB x 2 pcs	Silver
B5HX100487236ER2G-BB012	48 GB	1R *8	7200 MT/s	CL36-46-46-118	1.35 V	24 GB x 2 pcs	Black
B5HX100487236ER2G-BS012	48 GB	1R *8	7200 MT/s	CL36-46-46-115	1.35 V	24 GB x 2 pcs	Silver
B5HX100326032ER2G-BB013	32 GB	1R *8	6000 MT/s	CL32-38-38-76	1.35 V	16 GB x 2 pcs	Black
B5HX100326032ER2G-BS013	32 GB	1R *8	6000 MT/s	CL32-38-38-76	1.35 V	16GB x 2 pcs	Silver

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. 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. MTBF = Mean Time Between Failures based on internal testing using Telcordia stress testing standard.
7. For more details, please visit [www.biwintech.com](http://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](mailto:support@biwintech.com)  
[www.biwintech.com](http://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, Xinhua 2nd Road, Neihu District, Taipei City 114, Taiwan  
+886 (2) 2795-282

**Lifetime  
Warranty**

