



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 Heatsink UDIMM
Color	Black / Silver
Capacity	24 GB: 24 GB x 1 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	CL28 / CL30 / CL32 / CL34 / CL36
Rank	1R x 8 / 2R x 8
Operating Voltage	1.35 V / 1.40 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	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
BXH52460HX1-D30FB	24 GB	1R x 8	6000	CL30-36-36-72	1.4 V	24 GB x 1pcs	Black
XH52460HX1-D30FS	24 GB	1R x 8	6000	CL30-36-36-72	1.4 V	24 GB x 1pcs	Silver
BXH53260HX1-D28FB	32 GB	1R x 8	6000	CL28-35-35-72	1.4 V	16 GB x 2pcs	Black
BXH53260HX1-D28FS	32 GB	1R x 8	6000	CL28-35-35-72	1.4 V	16 GB x 2pcs	Silver
BXH53260HX1-D28GB	32 GB	1R x 8	6000	CL28-35-35-72	1.45 V	16 GB x 2pcs	Black
BXH53260HX1-D28GS	32 GB	1R x 8	6000	CL28-35-35-72	1.45 V	16 GB x 2pcs	Silver
B5HX100326030ER2G-BB001	32 GB	1R x 8	6000	CL30-38-38-76	1.35 V	16 GB x 2pcs	Black

B5HX100326030ER2G-BS001	32 GB	1R × 8	6000	CL30-38-38-76	1.35 V	16 GB x 2pcs	Silver
BXH53260HX1-D36DB	32 GB	1R × 8	6000	CL36-45-45-96	1.3 V	16 GB x 2pcs	Black
BXH53260HX1-D36DS	32 GB	1R × 8	6000	CL36-45-45-96	1.3 V	16 GB x 2pcs	Silver
B5HX100326834FR2G-BB003	32 GB	1R × 8	6800	CL34-45-45-108	1.4 V	16 GB x 2pcs	Black
B5HX100326834FR2G-BS003	32 GB	1R × 8	6800	CL34-45-45-108	1.4 V	16 GB x 2pcs	Silver
BXH54860HX1-D28FB	48 GB	1R × 8	6000	CL28-36-36-72	1.4 V	24 GB x 2pcs	Black
BXH54860HX1-D28FS	48 GB	1R × 8	6000	CL28-36-36-72	1.4 V	24 GB x 2pcs	Silver
B5HX100486834ER2G-BB011	48 GB	1R × 8	6800	CL34-46-46-108	1.35 V	24 GB x 2pcs	Black
B5HX100486834ER2G-BS011	48 GB	1R × 8	6800	CL34-46-46-108	1.35 V	24 GB x 2pcs	Silver
B5HX100487236ER2G-BB012	48 GB	1R × 8	7200	CL36-46-46-115	1.35 V	24 GB x 2pcs	Black
B5HX100487236ER2G-BS012	48 GB	1R × 8	7200	CL36-46-46-115	1.35 V	24 GB x 2pcs	Silver
B5HX100646030ER2G-BB006	64 GB	2R × 8	6000	CL30-38-38-76	1.35 V	32 GB x 2pcs	Black
B5HX100646030ER2G-BS006	64 GB	2R × 8	6000	CL30-38-38-76	1.35 V	32 GB x 2pcs	Silver
B5HX100646432FR2G-BB007	64 GB	2R × 8	6400	CL32-39-39-102	1.4 V	32 GB x 2pcs	Black
B5HX100646432FR2G-BS007	64 GB	2R × 8	6400	CL32-39-39-102	1.4 V	32 GB x 2pcs	Silver

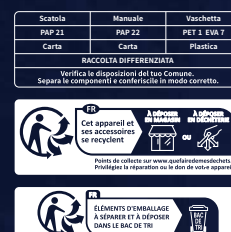
1. Tested by BIWIN labs. Actual performance may vary due to systems, devices, or environment.
2. Maintenance and future updates are required throughout the product lifecycle. Specifications are subject to change without notice.
3. The pictures are for illustration only. Actual products may vary due to 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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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.