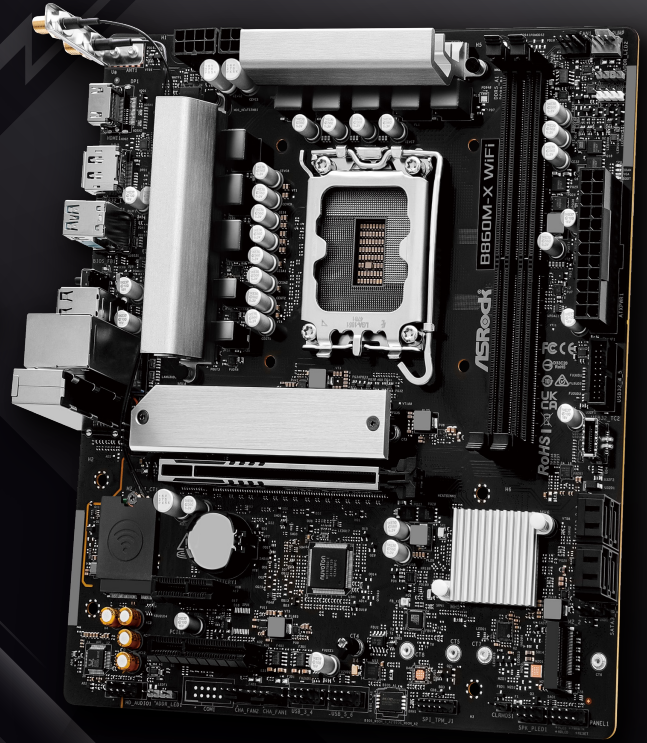


B860M-X WiFi R2.0



PRODUCT BRIEF :

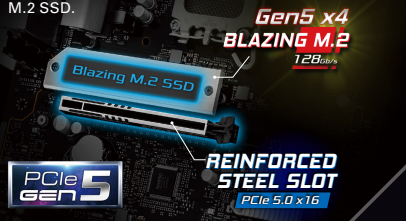
- Supports Intel® Core™ Ultra Processors (Series 2) (LGA1851)
- 7+1+1+1 Power Phase
- 2 x DDR5 DIMMs
- Supports Dual Channel, up to 9066+ (OC)
- 1 PCIe 5.0 x16, 1 PCIe 4.0 x4, 1 PCIe 4.0 x1
- Graphics Output Options: 1 HDMI, 1 DisplayPort
- Realtek ALC897 7.1 CH HD Audio Codec
- 4 SATA3
- 1 Blazing M.2 (PCIe Gen5 x4)
- 1 Hyper M.2 (PCIe Gen4 x4)
- 1 USB 3.2 Gen2x2 Type-C (Rear)
- 1 USB 3.2 Gen1 Type-C (Front)
- 5 USB 3.2 Gen1 (3 Rear, 2 Front)
- 6 USB 2.0 (2 Rear, 4 Front)
- Realtek 2.5G LAN
- 802.11ax Wi-Fi 6E + Bluetooth
- Supports BIOS Flashback



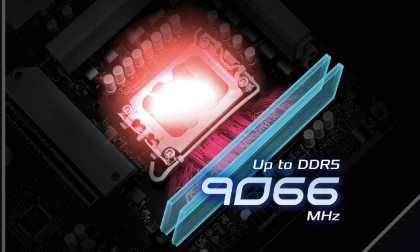
I/O OVERVIEW

PCIe 5.0 Support

Supports PCIe 5.0 standard for both graphics card and M.2 SSD.

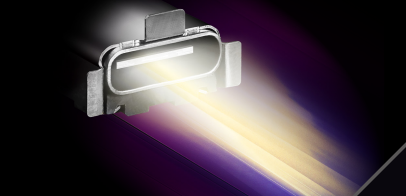


Up to DDR5-9066 MHz



USB 3.2 Gen2x2 Type-C

The USB 3.2 Gen2x2 Type-C delivers up to 20 Gbps data transfer rate.



Front USB 3.2 Gen1 Type-C

USB 3.2 Gen1 Type-C that delivers up to 5Gbps data transfer rate.



Polychrome RGB

The RGB LED header allows user to create unique PC style easily.



WiFi 6E (802.11ax)

Better and faster internet traffic with lower latency!

* The availability of Wi-Fi 6E (6GHz) may vary between different countries.



Detail Specification

Platform	- Micro ATX Form Factor: 9.6-in x 8.6-in, 24.4 cm x 21.8 cm	Rear Panel I/O	- 2 x Antenna Ports - 1 x HDMI Port - 1 x DisplayPort 1.4 - 1 x USB 3.2 Gen2x2 Type-C Port (20 Gb/s) - 3 x USB 3.2 Gen1 Ports - 2 x USB 2.0 Ports - 1 x RJ-45 LAN Port - 1 x BIOS Flashback Button - HD Audio Jacks: Line in / Front Speaker / Microphone
Unique Feature	<p>Superb Productivity</p> <ul style="list-style-type: none"> - PCIe Gen5 (Graphics, M.2) - Dual Channel DDR5 <p>Rock-Solid Durability</p> <ul style="list-style-type: none"> - 7+1+1+1+1 Power Phase <p>Ultrafast Connectivity</p> <ul style="list-style-type: none"> - 2.5G LAN, 802.11axe Wi-Fi 6E Module <p>EZ Update</p> <ul style="list-style-type: none"> - BIOS Flashback Button - ASRock Auto Driver Installer <p>EZ Troubleshooter</p> <ul style="list-style-type: none"> - ASRock Post Status Checker 	Storage	<p>CPU:</p> <ul style="list-style-type: none"> - 1 x Blazing M.2 Socket (M2_1, Key M), supports type 2260/2280 PCIe Gen5x4 (128 Gb/s) mode* <p>Chipset:</p> <ul style="list-style-type: none"> - 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2230/2242/2260/2280 PCIe Gen4x4 (64 Gb/s) mode* - 4 x SATA3 6.0 Gb/s Connectors <p>* Supports Intel® Volume Management Device (VMD) * Supports NVMe SSD as boot disks</p>
CPU	<ul style="list-style-type: none"> - Supports Intel® Core™ Ultra Processors (Series 2) (LGA1851) - Supports Intel® Hybrid Technology - Supports Intel® Turbo Boost Max 3.0 Technology - Supports Intel® Thermal Velocity Boost (TVB) - Supports Intel® Adaptive Boost Technology (ABT) - Integrated NPU for dedicated AI acceleration 	RAID	- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices
Chipset	- Intel® B860	Connector	<ul style="list-style-type: none"> - 1 x SPI TPM Header - 1 x Power LED and Speaker Header - 1 x RGB LED Header* - 2 x Addressable LED Headers** - 2 x CPU Fan Connector (4-pin) (Smart Fan Speed Control)*** - 2 x Chassis Fan Connectors (4-pin) (Smart Fan Speed Control)*** - 1 x AIO Pump Fan Connector (4-pin) (Smart Fan Speed Control)*** - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector (Hi-Density Power Connector) - 1 x 4 pin 12V Power Connector (Hi-Density Power Connector) - 1 x Front Panel Audio Connector - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) - 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) - 1 x Front Panel Type C USB 3.2 Gen1 Header * Supports in total up to 12V/3A, 36W LED Strip ** Support in total up to 5V/3A, 15W LED Strip *** CPU_FAN1 supports the fan power up to 1A (12W). *** CPU_FAN2, CHA_FAN1~2 and AIO_PUMP support the fan power up to 3A (36W). *** CPU_FAN2, CHA_FAN1~2 and AIO_PUMP can auto detect if 3-pin or 4-pin fan is in use.
Memory	<ul style="list-style-type: none"> - Dual Channel DDR5 Memory Technology - 2 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 9066+(OC)* 1DPC 1R Up to 9066+ MHz (OC), 6400 MHz Natively. 1DPC 2R Up to 6800+ MHz (OC), 6400 MHz Natively. - Supports Clocked Unbuffered DIMM (CUDIMM) - Max. capacity of system memory: 128GB - Supports Intel® Extreme Memory Profile (XMP) 3.0x <p>* Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/)</p>	BIOS Feature	- 256Mb AMI UEFI Legal BIOS with GUI support
Expansion Slot	<p>CPU:</p> <ul style="list-style-type: none"> - 1 x PCIe 5.0 x16 Slot (PCIe1), supports x16 mode* <p>Chipset:</p> <ul style="list-style-type: none"> - 1 x PCIe 4.0 x1 Slot (PCIe2)* - 1 x PCIe 4.0 x4 Slot (PCIe3), supports x4 mode* - 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module and Intel® CNVio/CNVio2 (Integrated WiFi/BT) <p>* Supports NVMe SSD as boot disks</p>	Software and UEFI	<p>Software</p> <ul style="list-style-type: none"> - ASRock Motherboard Utility (A-Tuning) - ASRock Dragon 2.5G LAN Software - ASRock Polychrome SYNC * These utilities can be downloaded from ASRock Live Update & APP Shop. <p>UEFI</p> <ul style="list-style-type: none"> - ASRock EZ Mode - ASRock Full HD UEFI - ASRock My Favorites in UEFI - ASRock Auto Driver Installer - ASRock Instant Flash
Graphics	<ul style="list-style-type: none"> * Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. - Intel® Xe® LPG Graphics Architecture - 1 x HDMI 2.1 TMDS/FRL 8G Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 120Hz - 1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 8K 60Hz / 5K 120Hz 	OS	- Microsoft® Windows® 11 64-bit
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec)	Certifications	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
LAN	<ul style="list-style-type: none"> - 2.5 Gigabit LAN 10/100/1000/2500 Mb/s - Dragon RTL8125BG - Supports Dragon 2.5G LAN Software <ul style="list-style-type: none"> - Smart Auto Adjust Bandwidth Control - Visual User Friendly UI - Visual Network Usage Statistics - Optimized Default Setting for Game, Browser, and Streaming Modes - User Customized Priority Control 	Accessories	<ul style="list-style-type: none"> - 1 x I/O Shield - 2 x SATA Data Cables - 2 x ASRock WiFi 2.4/5/6 GHz Antennas - 1 x Screw for M.2 Socket - 1 x Standoff for M.2 Socket
Wireless LAN	<ul style="list-style-type: none"> - 802.11axe Wi-Fi 6E Module - Supports IEEE 802.11a/b/g/n/ac/ax/axe - Supports Dual-Band 2x2 with extended 6GHz band* support <p>* The Wi-Fi 6E module is supported by Microsoft® Windows® 11 only. The availability of the 6GHz band will depend on the different regulation status of each country and region. It will be activated (for supported countries) through Windows® Update and software updates once available.</p> <ul style="list-style-type: none"> * A 6GHz compatible router is required for 6E functionality. - 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology - Supports Bluetooth 5.3 - Supports MU-MIMO 		
USB	<p>CPU:</p> <ul style="list-style-type: none"> - 1 x USB 3.2 Gen2x2 Type-C (Rear) <p>Chipset:</p> <ul style="list-style-type: none"> - 1 x USB 3.2 Gen1 Type-C (Front) - 5 x USB 3.2 Gen1 Type-A (3 Rear, 2 Front) - 6 x USB 2.0 (2 Rear, 4 Front) <p>* All USB ports support ESD Protection</p>		