

B860M-X









PRODUCT BRIEF:

- · Supports Intel® Core™ Ultra Processors (Series 2) (LGA1851)
- · 7+1+1+1+1 Power Phase
- · 2 x DDR5 DIMMs
 - Supports Dual Channel, up to 9066+ (OC)
- · 1 PCle 5.0 x16, 1 PCle 4.0 x4, 1 PCle 4.0 x1, 1 M.2 Key E for WiFi
- · Graphics Output Options: 1 HDMI, 1 DisplayPort
- · Realtek ALC897 7.1 CH HD Audio Codec

- · 4 SATA3
- 1 Blazing M.2 (PCle Gen5 x4)
- 1 Hyper M.2 (PCle 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
- · Supports BIOS Flashback



I/O OVERVIEW























/ISRock

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 Mounting Points - 1 x HDMI Port
Unique Feature	Superb Productivity - PCIe Gen5 (Graphics, M.2) - Dual Channel DDR5 Rock-Solid Durability - 7+1+1+1+1 Power Phase Ultrafast Connectivity - 2.5G LAN EZ Update - BIOS Flashback Button - ASRock Auto Driver Installer EZ Troubleshooter - ASRock Post Status Checker	Storage	- 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 CPU: - 1 x Blazing M.2 Socket (M2_1, Key M), supports type 2260/2280 PCle Gen5x4 (128 Gb/s mode* Chipset:
СРИ	- 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		- 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 * Supports Intel® Volume Management Device (VMD) * Supports NVMe SSD as boot disks
Chipset	- Intel® B860		
Memory	- 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.	RAID	- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices
	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 * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/)	- 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 Connector (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	
Expansion Slot	CPU: -1 x PCIe 5.0 x16 Slot (PCIE1), supports x16 mode* Chipset: -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) * Supports NVMe SSD as boot disks		- 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.
Graphics	* Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported		
	only with processors which are GPU integrated Intel® X° LPG Graphics Architecture - 1 x HDMI 2.1 TMDS/FRL 8G Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 120Hz	BIOS Feature	- 256Mb AMI UEFI Legal BIOS with GUI support
	- 1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 8K 60Hz / 5K 120Hz	Software and UEFI	Software - ASRock Motherboard Utility (A-Tuning) - ASRock Dragon 2.5G LAN Software - ASRock Polychrome SYNC
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec)		* These utilities can be downloaded from ASRock Live Update & APP Shop. UEFI
LAN	- 2.5 Gigabit LAN 10/100/1000/2500 Mb/s - Dragon RTL8125BG - Supports Dragon 2.5G LAN Software - 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		- ASRock EZ Mode - ASRock Full HD UEFI - ASRock My Favorites in UEFI - ASRock Auto Driver Installer - ASRock Instant Flash
	,	OS	- Microsoft® Windows® 11 64-bit
USB	CPU: -1 x USB 3.2 Gen2x2 Type-C (Rear) Chipset: -1 x USB 3.2 Gen1 Type-C (Front) -5 x USB 3.2 Gen1 Type-A (3 Rear, 2 Front)	Certifications	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
	- 6 x USB 2.0 (2 Rear, 4 Front) * All USB ports support ESD Protection	Accessories	- 1 x I/O Shield - 2 x SATA Data Cables

- 2 x Screws for M.2 Sockets - 1 x Standoff for M.2 Socket