



B760M PG LIGHTNING



PRODUCT BRIEF :

- Supports 13th Gen & 12th Gen Intel® Core™ Processors (LGA1700)
- 7+1+1 Power Phase, Dr.MOS for VCore+GT
- Supports DDR5 7200MHz (OC)
- 1 PCIe 5.0 x16, 1 PCIe 3.0 x16, 1 M.2 Key E for WiFi
- Graphics Output Options: HDMI, DisplayPort
- Realtek ALC897 7.1 CH HD Audio Codec, Nahimic Audio
- 4 SATA3, 3 Hyper M.2 (PCIe Gen4x4)
- 1 USB 3.2 Gen1 Type-C (Rear), 5 USB 3.2 Gen1 Type-A (3 Rear, 2 Front), 6 USB 2.0 (2 Rear, 4 Front)
- Dragon 2.5G LAN
- Supports ASRock Auto Driver Installer

I/O OVERVIEW



7+1+1 Power Phase Design + Dr. MOS

Vcore with Dr.MOS design, delivering smoother and neater power to the CPU.



Hyper M.2 (PCIe GEN4 x4)

Lightning fast data transferring experience.



Dragon 2.5Gbps LAN

Enjoy the faster connectivity experience for gaming, file transfers and backups.

2.5X Faster



M.2 (KEY E) For WiFi

Users may upgrade wireless module by M.2 (Key E) slot.

*WiFi Module is not included.



Nahimic Audio

Offers the most engaging listening experience, vibrant and rich with details.



Auto Driver Installer

The LAN driver has already prepacked in BIOS ROM, simply follow the instructions and install all necessary drivers automatically.



Detail Specification

Platform	- Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm	Rear Panel I/O	<ul style="list-style-type: none"> - 2 x Antenna Mounting Points - 1 x PS/2 Mouse/Keyboard Port - 1 x HDMI Port - 1 x DisplayPort 1.4 - 1 x USB 3.2 Gen1 Type-C Port - 3 x USB 3.2 Gen1 Type-A Ports - 2 x USB 2.0 Ports - 1 x RJ-45 LAN Port - HD Audio Jacks: Line in / Front Speaker / Microphone
Unique Feature	Superb Productivity <ul style="list-style-type: none"> - PCIe Gen5 (Graphics) - Dual Channel DDR5 Rock-Solid Durability <ul style="list-style-type: none"> - 7+1+1 Power Phase, 50A Dr.MOS for VCore+GT Ultrafast Connectivity <ul style="list-style-type: none"> - 2.5G LAN EZ Update <ul style="list-style-type: none"> - ASRock Auto Driver Installer EZ Troubleshooter <ul style="list-style-type: none"> - ASRock Post Status Checker 	Storage	CPU: <ul style="list-style-type: none"> - 1 x Hyper M.2 Socket (M2_1, Key M), supports type 2242/2260/2280 PCIe Gen4x4 (64 Gb/s) mode* Chipset: <ul style="list-style-type: none"> - 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode* - 1 x Hyper M.2 Socket (M2_3, Key M), supports type 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
CPU	<ul style="list-style-type: none"> - Supports 13th Gen & 12th Gen Intel® Core™ Processors (LGA1700) - Supports Intel® Hybrid Technology - Supports Intel® Turbo Boost Max 3.0 Technology - Supports Intel® Thermal Velocity Boost (TVB) - Supports Intel® Adaptive Boost Technology (ABT) 	RAID	- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices
Chipset	- Intel® B760	Connector	<ul style="list-style-type: none"> - 1 x SPI TPM Header - 1 x Chassis Intrusion and Speaker Header - 1 x CPU Fan Connector (4-pin)* - 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)** - 4 x Chassis/Water Pump Fan Connectors (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 Front Panel Audio Connector - 1 x Thunderbolt AIC Connector (5-pin) (Supports ASRock Thunderbolt 4 AIC Card) - 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) * CPU_FAN1 supports the fan power up to 1A (12W). ** CPU_FAN2/WP supports the fan power up to 2A (24W). *** CHA_FAN1~4/WP support the fan power up to 2A (24W). *** CPU_FAN2/WP and CHA_FAN1~4/WP 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 - 4 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 7200+(OC)* 1DPC 1R Up to 7200+ MHz (OC), 4800 MHz Natively. 1DPC 2R Up to 6000+ MHz (OC), 4400 MHz Natively. 2DPC 1R Up to 5600+ MHz (OC), 4000 MHz Natively. 2DPC 2R Up to 4800+ MHz (OC), 3600 MHz Natively. - Max. capacity of system memory: 192GB - Supports Intel® Extreme Memory Profile (XMP) 3.0 * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/)	BIOS Feature	- 128Mb AMI UEFI Legal BIOS with GUI support
Expansion Slot	CPU: <ul style="list-style-type: none"> - 1 x PCIe 5.0 x16 Slot (PCIe1), supports x16 mode* Chipset: <ul style="list-style-type: none"> - 1 x PCIe 3.0 x16 Slot (PCIe2), 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 - Supports AMD CrossFire™	Software and UEFI	Software <ul style="list-style-type: none"> - ASRock Motherboard Utility (Phantom Gaming Tuning) - ASRock Phantom Gaming LAN Software * These utilities can be downloaded from ASRock Live Update & APP Shop. UEFI <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 - ASRock Easy RAID Installer
Graphics	* Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. <ul style="list-style-type: none"> - Intel® Xe Graphics Architecture (Gen 12) - 1 x HDMI 2.1 TMDS Compatible, supports HDCP 2.3 and max. resolution up to 4K 60Hz - 1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 8K 60Hz / 5K 120Hz 	OS	- Microsoft® Windows® 10 64-bit / 11 64-bit
Audio	<ul style="list-style-type: none"> - 7.1 CH HD Audio (Realtek ALC897 Audio Codec) - Nahimic Audio 	Certifications	<ul style="list-style-type: none"> - 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 Phantom Gaming 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 User Manual - 1 x I/O Shield - 2 x SATA Data Cables - 4 x Screws for M.2 Sockets - 1 x Standoff for M.2 Socket
USB	<ul style="list-style-type: none"> - 1 x USB 3.2 Gen1 Type-C (Rear) - 5 x USB 3.2 Gen1 Type-A (3 Rear, 2 Front) - 6 x USB 2.0 (2 Rear, 4 Front) * All USB ports support ESD Protection		