

ASRock B650M PG Lightning AM5 Micro ATX Motherboard

Sale Price: 20800.0



PRODUCT ID: 00538

Basic Information

Supported CPU	- Supports AMD Socket AM5 Ryzem 9000, 8000 and 7000 Series Processors
Chipset	AMD B650
BIOS	- 256Mb AMI UEFI Legal BIOS with GUI support
Form Factor	- Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec) - Nahimic Audio

Expansion Slots

PCI	CPU: - 1 x PCIe 4.0 x16 Slot (PCIE1), supports x16 mode - 1 x PCIe 3.0 x16 Slot (PCIE2), supports x4 mode Chipset: - 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module - Supports AMD CrossFire - 15μ Gold Contact in VGA PCIe Slot (PCIE1)
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Memory

Type	DDR5
Slots	4x DIMMs
Supported Memory	- Dual Channel DDR5 Memory Technology - Supports DDR5 ECC/non-ECC, un-buffered memory up to 7200+(OC) - Max. capacity of system memory: 256GB - Supports Extreme Memory Profile (XMP) and EXTended Profiles for Overclocking (EXPO) memory modules
Maximum Memory	256GB

Graphics

Basic Information

Graphics

Integrated AMD RDNA graphics (Actual support may vary by CPU)

- 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 4K 120Hz

Connector & Ports

HDMI	1 x HDMI Port
Display Port (s)	1 x DisplayPort 1.4
USB (s)	- 1 x USB 3.2 Gen2 Type-C (Rear) - 1 x USB 3.2 Gen2 Type-A (Rear) - 1 x USB 3.2 Gen1 Type-C (Front) - 6 x USB 3.2 Gen1 Type-A (2 Rear, 4 Front) - 8 x USB 2.0 (4 Rear, 4 Front)
LAN Port (s)	- 2.5 Gigabit LAN 10/100/1000/2500 Mb/s - Dragon RTL8125BG - Supports Phantom Gaming LAN Software - Smart Auto Adjust Bandwidth Control - Visual User-Friendly UI - Visual Network Usage Statistics - Optimized Default Settings for Game, Browser, and Streaming Modes - User Customized Priority Control
Supported Storage	CPU: - 1 x Blazing M.2 Socket (M2_1, Key M), supports type 2260/2280 PCIe Gen5x4 (128 Gb/s) mode* Chipset: - 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode* - 1 x M.2 Socket (M2_3, Key M), supports type 2260/2280 PCIe Gen4x2 (32 Gb/s) mode* - 4 x SATA3 6.0 Gb/s Connectors
RAID	- Supports RAID 0, RAID 1 and RAID 10 for SATA storage devices - Supports RAID 0, RAID 1 and RAID 10 for M.2 NVMe storage devices
Audio	HD Audio Jacks: Line in / Front Speaker / Microphone

Basic Information

Internal I/O Ports

Rear Panel I/O

- 2 x Antenna Mounting Points
- 1 x HDMI Port
- 1 x DisplayPort 1.4
- 1 x USB 3.2 Gen2 Type-A Port (10 Gb/s)
- 1 x USB 3.2 Gen2 Type-C Port (10 Gb/s)
- 2 x USB 3.2 Gen1 Type-A Ports
- 4 x USB 2.0 Ports
- 1 x RJ-45 LAN Port
- 1 x BIOS Flashback Button
- HD Audio Jacks: Line in / Front Speaker / Microphone

Connector

- 1 x Power LED and Speaker Header
- 1 x RGB LED Header*
- 3 x Addressable LED Headers**
- 1 x CPU Fan Connector (4-pin)***
- 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)****
- 3 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)
- 2 x USB 3.2 Gen1 Headers (Support 4 USB 3.2 Gen1 ports)
- 1 x Front Panel Type C USB 3.2 Gen1 Header

TPM (Trusted Platform Module)

- 1 x SPI TPM Header

Others

Special Features

- Superb Productivity
- PCIe Gen5 (M.2)
- Dual Channel DDR5
- Rock-Solid Durability
- 6+2+1 Power Phase, 50A Dr.MOS
- Ultrafast Connectivity
- 2.5G LAN
- EZ Update
- BIOS Flashback Button
- ASRock Auto Driver Installer

Basic Information

Bundled Software

Software

- ASRock Motherboard Utility (Phantom Gaming Tuning)
- ASRock Phantom Gaming LAN Software
- ASRock Polychrome SYNC*
- UEFI
- ASRock Full HD UEFI
- ASRock Auto Driver Installer
- ASRock Instant Flash

Warranty Information

Manufacturing Warranty

3 Years