

# CES 2024 AWARD WINNER – B760I Lightning WiFi



The B760I Lightning WiFi motherboard stood out at CES 2024, earning the title of "Best Motherboard" from Tom's Hardware due to its robust performance, excellent memory support, and advanced thermal solution, making it a top choice for gamers and PC enthusiasts seeking excellence in their mini-ITX builds.







# **NEW PHANTOM GAMING MINI-ITX MOTHERBOARDS**







- Robust Performance
- 14+1+1 Phase, 110A SPS for VCore+GT
- Supports DDR5 8600+(OC)
- Server-Grade Low-loss 8L2oz PCB
- Long Lasting 20K Black Caps
- Phantom Gaming 2.5Gbps LAN
- Intel 802.11axe WiFi 6E



## **B760I Lightning WiFi**

### Robust Performanc

- 14+1+1 Phase, 110A SPS for VCore+GT
- Supports DDR5 8600+(OC)
- Server-Grade Low-loss 8L2oz PCB
- Phantom Gaming 2.5Gbps LAN
- Intel 802.11axe WiFi 6E
- CES 2024 Award Winner

## **OPTIMIZED POWER AND DURABILITY**



VCore with **SPS design** delivers smoother and neater power to the CPU, enhanced by **20K black capacitors** that ensure a lifespan of at least 20,000 hours for extended component durability. This optimized power delivery offers perfect support for the latest **Intel 14<sup>th</sup> Gen CPUs**.



# **VCORE OUTPUT COMPARISON**

BEST IN SHOW





Z790l Lightning WiFi



### **Z790I Lightning WiFi**

Z790I AORUS ULTRA MPG Z790I EDGE WIFI ROG STRIX Z790-I GAMING WIFI

### 14+1+1,110A SPS

10+1+2, 105A SPS 10+1+1, 105A SPS 1050A

1050A

UP TO 146%

154@A

**B760I Lightning WiFi** 

B760I AORUS PRO

MPG B760I EDGE WIFI ROG STRIX B760-I GAMING WIFI 14+1+1,110A SPS

8+1+1, 90A SPS 720A

8+1+1, 90A SPS

8+1+2, 80A

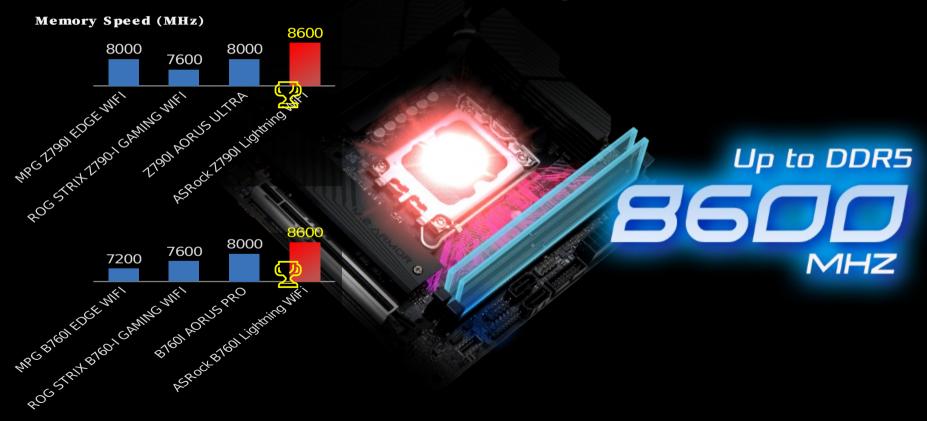
154**Q**D UP TO

B760l Lightning WiFi

### TOP DDR5 OVERCLOCKING



Featuring **SMT** technology slots and optimized layout design, this provides more stable memory signal. It supports DDR5 modules with speeds of up to **8600+ MHz**, **leading in its mini-ITX class.** 



### OVERDRIVE OC PERFORMANCE





Z790l Lightning WiFi supports the newly released Intel® Core™ i9-14900KS processor. Benchmarked with CINEBENCH R23, it achieves an impressive score of 43,064 pts, capable of fully unleashing powerful performance of 14900KS for enhanced gaming and productivity.

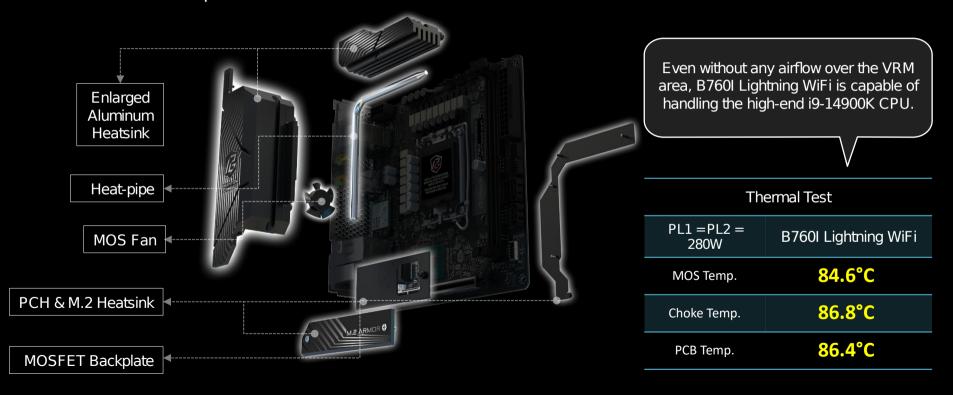
It also supports the high-speed memory module, up to **DDR5 8600+**, to offer superior overclocking performance.



# **COMPOSITE HEATSINK DESIGN**



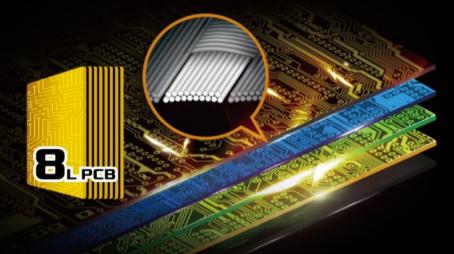
Equipped with a **Composite VRM Heatsink** combining a cooling fan, bigger aluminum sink and heat pipe for maximum heat dissipation.



# **SERVER GRADE LOW LOSS 8L PCB**



Built with server grade low loss 8-layer PCB design that provides better signal and thermal performance to optimize the processors, enhances DRAM OC.



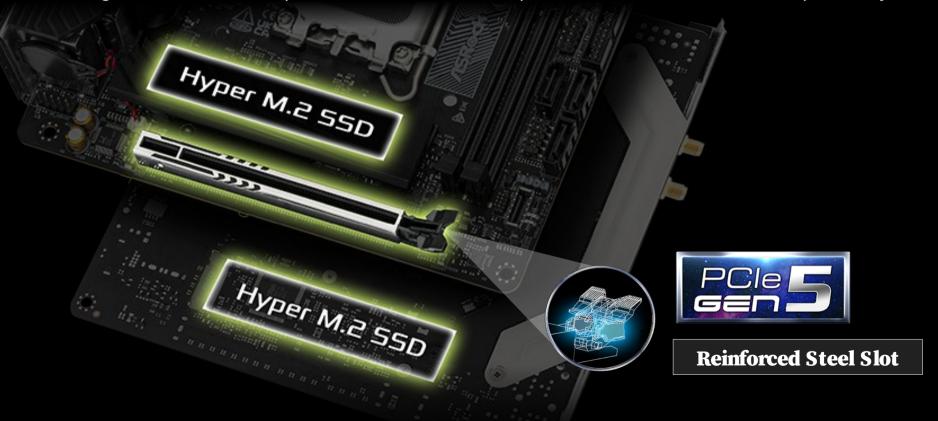
Model	8L PCB	Server Grade Low-Loss	20Z PCB
Z790l Lightning WiFi	V	V	V
B760I Lightning WiFi	V	V	V



# **EXCELLENT HIGH-SPEED EXPANDABILITY**



It's designed to maximize the speed of SSDs and GPUs for quick data transfers and excellent expandability.



# IMMERSIVE GAMING AUDIO EXPERIENCE



Whether you are using headphones, a headset, external or internal speakers, via USB, Wi-Fi, analog output or even HDMI, Nahimic Audio offers you the most engaging listening experience, vibrant and rich with details.

- Static Noise Suppression
- **Echo Cancellation**

•	Lateral	Sound	Cance	llati	on

Model	Audio Codec	Nahimic Audio
Z790I Lightning WiFi	Realtek ALC897	V
B760I Lightning WiFi	Realtek ALC897	V



# **CPU INDICATOR**



Tune your computer quickly with **ASRock CPU Indicator**. It rates your CPU by assigning points based on its performance and capabilities, helping users optimize overclocking settings for enhanced performance.





PHANTOM GAMING 2 J/AVAL LVAILAL FULLY

# **SPECIFICATION**

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# **Z790I Lightning WiFi**







CPU Support	Supports 14 <sup>th</sup> , 13 <sup>th</sup> & 12 <sup>th</sup> Gen Intel® Core™ Processors
Socket	LGA1700
Chipset	Intel® Z790
Power	14+1+1 Power Phase, 110A SPS for Vcore+GT, 8L 2oz low-loss PCB, 20K Black Caps
Memory	2 x DDR5 DIMMs, supports up to 8600+ (OC)
Expansion Slots	1 PCle 5.0 x16
Graphics	Intel* UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.
Graphics Output	1 HDMI, 1 DisplayPort
Audio	7.1 CH HD Audio (Realtek ALC897 Audio Codec), Nahimic Audio
Storage	2 Hyper M.2 (PCle Gen4 x4), 3 SATA3
USB	1 USB 3.2 Gen2 Type-C (Rear), 1 USB 3.2 Gen2 Type-A (Rear), 1 USB 3.2 Gen1 Type-C (Front), 6 USB 3.2 Gen1 Type-A (4 Rear, 2 Front), 2 USB 2.0 (Front)
LAN	Phantom Gaming 2.5G LAN
Wireless LAN	802.11axe WiFi 6E + Bluetooth
Form Factor	Mini-ITX

# **B760I Lightning WiFi**







CPU Support	Supports 14 <sup>th</sup> , 13 <sup>th</sup> & 12 <sup>th</sup> Gen Intel® Core™ Processors
Socket	LGA1700
Chipset	Intel® B760
Power	14+1+1 Power Phase, 110A SPS for Vcore+GT, 8L 2oz low-loss PCB
Memory	2 x DDR5 DIMMs, supports up to 8600+ (OC)
Expansion Slots	1 PCle 5.0 x16
Graphics	Intel* UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.
Graphics Output	1 HDMI, 1 DisplayPort
Audio	7.1 CH HD Audio (Realtek ALC897 Audio Codec), Nahimic Audio
Storage	2 Hyper M.2 (PCle Gen4 x4), 3 SATA3
USB	1 USB 3.2 Gen2 Type-C (Rear), 1 USB 3.2 Gen2 Type-A (Rear), 1 USB 3.2 Gen1 Type-C (Front), 6 USB 3.2 Gen1 Type-A (4 Rear, 2 Front), 2 USB 2.0 (Front)
LAN	Phantom Gaming 2.5G LAN
Wireless LAN	802.11axe WiFi 6E + Bluetooth
Form Factor	Mini-ITX



### FAST / MYSTERIOUS / UNBEATABLE

# THANK YOU

# /SRock