

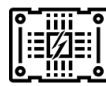


## SPECIFICATIONS

<b>Marketing Name</b>	GeForce RTX™ 5090 32G LIGHTNING Z
<b>Core Clocks</b>	Extreme Performance: 2775 MHz (MSI Center) Boost: 2730 MHz
<b>Model Name</b>	G5090-32LZ
<b>Graphics Processing Unit</b>	NVIDIA® GeForce RTX™ 5090
<b>Interface</b>	PCI Express® Gen 5x 16
<b>HDCP Support</b>	Y
<b>Cores</b>	21760 Units
<b>Memory Clock Speed</b>	28 Gbps
<b>Memory</b>	32GB GDDR7
<b>Memory Bus</b>	512bit
<b>Output</b>	USB Type-C x 1 (Dedicated for Lightning display panel only), DisplayPort x 3 (2.1b), HDMI™ x 1 (As specified in HDMI™ 2.1b: up to 4K 480Hz or 8K 120Hz with DSC, Gaming VRR, HDR)
<b>Power consumption</b>	OC:800 W Extreme:1000W
<b>Power connectors</b>	16-pin x 2 (1-to-3 dongle not supported.)
<b>Recommended PSU</b>	1500W+
<b>Card Dimension(mm)</b>	Card: 260 x 151 x 61 mm Radiator: 394 x 120 x 56 mm
<b>Weight (Card / Package)</b>	TBD g / TBD g
<b>DirectX Version Support</b>	12 Ultimate
<b>OpenGL Version Support</b>	4.6
<b>Maximum Displays</b>	4
<b>Digital Maximum Resolution</b>	7680 x 4320
<b>G-SYNC™ technology</b>	Y
<b>Mic-in/Headphone-out</b>	1/1

## CONNECTIONS

## FEATURES



### CUSTOM PCB FOR EXTREME OVERCLOCKING

Engineered for extreme 3oz copper layer and premium components to deliver exceptional stability, and sustained peak performance.



### FORGED IN CARBON FIBER — REINFORCED. LIGHT. BEAUTIFUL.

Rigid carbon fiber and Lightning Pattern detailing deliver technical elegance.



### FULL-COVER COLDPLATE FOR MAXIMUM COOLING

Precision-engineered waterways cover the GPU, VRAM, and MOSFETs, ensuring uncompromised thermal performance.



### HYBRID-FIN RADIATOR FOR OPTIMIZED AIRFLOW

A uniquely engineered fin structure alternates between dense and sparse sections, creating distinct hot and cold zones that enhance heat exchange.



### NEXT-GENERATION ADVANCED PUMP

Delivers higher pressure and precision-optimized coolant flow for thermal efficiency and sustained peak performance.



### WORLD'S FIRST GRAPHICS CARD WITH A FULL 8-INCH DISPLAY

Introducing the world's first graphics card with a fully integrated 8-inch screen, blending aesthetics and function.



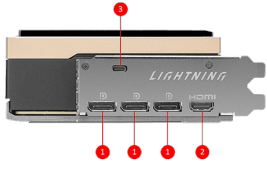
### LIGHTNING FAN - MASTERING AERODYNAMIC POWER

Designed for the Lightning series, the fan's aerodynamic blades optimize airflow and pressure to ensure maximum cooling.



### LIGHTNING HUB & OVERDRIVE APP - TOTAL CONTROL, ANYWHERE

Exclusive to the Lightning series, this web-based hub and mobile app deliver seamless GPU, display, and lighting control.



1. DisplayPort
2. HDMI™
3. Type-C (For Lightning display panel only)