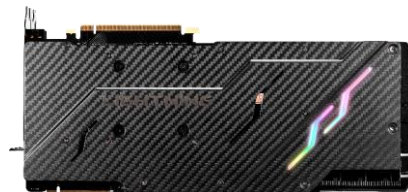


# GeForce RTX 2080 Ti LIGHTNING Z



## SPECIFICATIONS

<b>Model Name</b>	GeForce RTX™ 2080 Ti LIGHTNING Z
<b>Graphics Processing Unit</b>	NVIDIA® GeForce RTX™ 2080 Ti
<b>Interface</b>	PCI Express x16 3.0
<b>Cores</b>	4352 Units
<b>Core Clocks</b>	Boost: 1770 MHz
<b>Memory Speed</b>	14 Gbps
<b>Memory</b>	11GB GDDR6
<b>Memory Bus</b>	352-bit
<b>Output</b>	DisplayPort x 3 (v1.4) / HDMI 2.0b x 1 / USB Type-C x 1
<b>HDCP Support</b>	2.2
<b>Power consumption</b>	350 W
<b>Power connectors</b>	8-pin x 3
<b>Recommended PSU</b>	650 W
<b>Card Dimension(mm)</b>	328 x 143 x 63 mm
<b>Weight (Card / Package)</b>	1852 g / 4116 g
<b>DirectX Version Support</b>	12 API
<b>OpenGL Version Support</b>	4.5
<b>Multi-GPU Technology</b>	NVIDIA® NVLINK™ (SLI-Ready), 2-way
<b>Maximum Displays</b>	4
<b>VR Ready</b>	Y
<b>G-SYNC™ technology</b>	Y
<b>Adaptive Vertical Sync</b>	Y
<b>Digital Maximum</b>	7680 x 4320
<b>Resolution</b>	
<b>Accessories</b>	Graphics Card Support Bracket x 1 , 6-pin to 8-pin power cable x 1, V-check Point cable x 4

## CONNECTIONS



1. DisplayPort
2. HDMI
3. USB Type-C

## FEATURES



### PHANTOM OF LIGHTNING

Taking RGB to the next level which includes the fans, this feature will provide various stunning visuals effects.



### CARBON BACKPLATE

The full carbon backplate strengthens the card, but also enhances thermal conductivity using a thick heatpipe and thermal pads.



### DYNAMIC DASHBOARD

Keep an eye on clocks and temps in real-time or show off your own personal animations with this customizable OLED panel.



### TORX FAN 3.0

Award-winning fan design combining two different fin designs for cool & quiet gaming.



### DOUBLE BALL BEARINGS

Strong and lasting core for the TORX Fan 3.0 to provide years of smooth and silent gaming.



### Mastery of Aerodynamics

Using groundbreaking aerodynamic techniques, the heatsink is optimized for efficient heat dissipation.



### DRAGON CENTER

A consolidated platform that offers all the software functionality for your MSI Gaming product.



### MSI Afterburner

The ultimate overclocking software with advanced control options and real-time hardware monitor.