



## SPECIFICATION

|                              |  |
|------------------------------|--|
| <b>DDR4 Memory</b>           | 4800(OC)/ 4600(OC)/ 4533(OC)/ 4400(OC)/ 4300(OC)/ 4266(OC)/ 4200(OC)/ 4133(OC)/ 4000(OC)/ 3866(OC)/ 3733(OC)/ 3600(OC)/ 3466(OC)/ 3400(OC)/ 3333(OC)/ 3300(OC)/ 3200(OC)/ 3000(OC)/ 2933(JEDEC)/ 2666(JEDEC)/ 2400(JEDEC)/ 2133(JEDEC) MHz |
| <b>CPU (Max Support)</b>     | i9   |
| <b>M.2 port</b>              | 2  |
| <b>Chipset</b>               | Intel® Z490 Chipset  |
| <b>USB 3.1 ports(Front)</b>  | n/a  |
| <b>Memory Channel</b>        | Dual   |
| <b>USB 3.2 ports (Front)</b> | 1(Gen 1, Type C), 4(Gen 1, Type A)   |
| <b>DIMM Slots</b>            | 4  |
| <b>USB 3.2 ports (Rear)</b>  | 1(Gen 2, Type C), 1(Gen 2, Type A), 2(Gen 1, Type A)   |
| <b>Max Memory (GB)</b>       | 128  |
| <b>PCI-Ex16</b>              | 2  |
| <b>USB 3.1 ports (Rear)</b>  | n/a  |
| <b>PCI-E Gen</b>             | Gen3   |
| <b>Serial ports(Front)</b>   | 1  |
| <b>PCI-Ex1</b>               | 3  |
| <b>SATAIII</b>               | 6  |
| <b>USB 2.0 ports (Front)</b> | 4  |
| <b>RAID</b>                  | 0/1/5/10   |
| <b>LAN</b>                   | 1x Realtek® RTL8125B 2.5G LAN  |
| <b>TPM</b>                   | 1  |
| <b>USB 2.0 ports (Rear)</b>  | 2  |
| <b>Audio ports (Rear)</b>    | 5+ Optical S/PDIF (Realtek® ALC1200 Codec)   |
| <b>Display Port</b>          | 1  |
| <b>VGA</b>                   | n/a  |
| <b>HDMI</b>                  | 1  |
| <b>DirectX</b>               | 12   |
| <b>Form Factor</b>           | ATX  |
| <b>CrossFire</b>             | Y  |
| <b>DVI-D</b>                 | n/a  |
| <b>Operating System</b>      | Support for Windows® 10 64-bit   |

## FEATURE



### 2.5G LAN

Onboard 2.5G LAN with LAN manager, delivering the best online gaming experience.



### Extended Heatsink Design

MSI extended PWM heatsink and enhanced circuit design ensures even high-end processors to run in full speed.



### Twin Turbo M.2

With 2 x M.2 slots. Running at PCI-E Gen4 x4 maximizes performance for NVMe based SSDs.



### Core Boost

With premium layout and fully digital power design to support more cores and provide better performance.



### DDR4 Boost

Advanced technology to deliver pure data signals for the best gaming performance and stability.



### 8+4 Pin power supply

By providing 8+4 pin connectors to ensure adequate power supply to unleash ultimate multi-core CPU performance.



### M.2 SHIELD FROZR

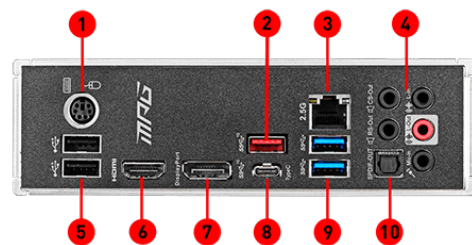
Onboard M.2 thermal solution to keep M.2 SSDs safe while preventing throttling, making them run cooler & faster.



### Pre-installed I/O Shielding

Better EMI protection and more convenience for installation

## CONNECTIONS



- |                                  |                                  |
|----------------------------------|----------------------------------|
| 1. PS/2 Combo Port               | 6. HDMI Port                     |
| 2. USB 3.2 Gen 2 10Gbps (Type-A) | 7. DisplayPort                   |
| 3. LAN Port                      | 8. USB 3.2 Gen 2 10Gbps (Type-C) |
| 4. HD Audio Connectors           | 9. USB 3.2 Gen 1 5Gbps (Type-A)  |
| 5. USB 2.0 Ports                 | 10. Optical S/PDIF OUT           |