

# MSI introduces new generation motherboards that support 10th Generation Intel Core I processors

MSI - the world's leading brand in manufacturing computer components for gamers has just announced a range of motherboard products using the all-new Intel 400 Series chipset. This is the foundation of the 10th Generation Intel Core I CPU, which has increased the multiplier to 10 cores and used the all-new LGA 1200 socket.

As usual, MSI still has MEG, MPG, MAG and PRO-Series product lines with different characteristics to fully meet all segments of the market but it can be said that all three product lines are Meet the most stringent requirements of users, especially gamers.



On this new generation of motherboards, we can find the following remarkable features

- Using multi-layer PCB (from 6 to 10 layers) for highest bandwidth and stability, especially useful when overclocking
- Equipping M.2 Shield Frozr cooling for SSD to maintain the highest performance
- 2.5Gbps network port is 2.5 times higher than the previous generation with high speed WI-FI 6 wireless connection
- Supports RGB Addressable LED and MSI MysticLight ecosystem to personalize computer
- EZ LED error indicator for quick check of defective area
- I / O shields are pre-installed for user convenience

## Impressive heat dissipation

With motherboards using Intel 400 Series chipsets, MSI has equipped with impressive cooling systems to meet the huge VRM area, which now has to carry up to 10 CPU cores. In the high-end MEG Z490 GODLIKE series,

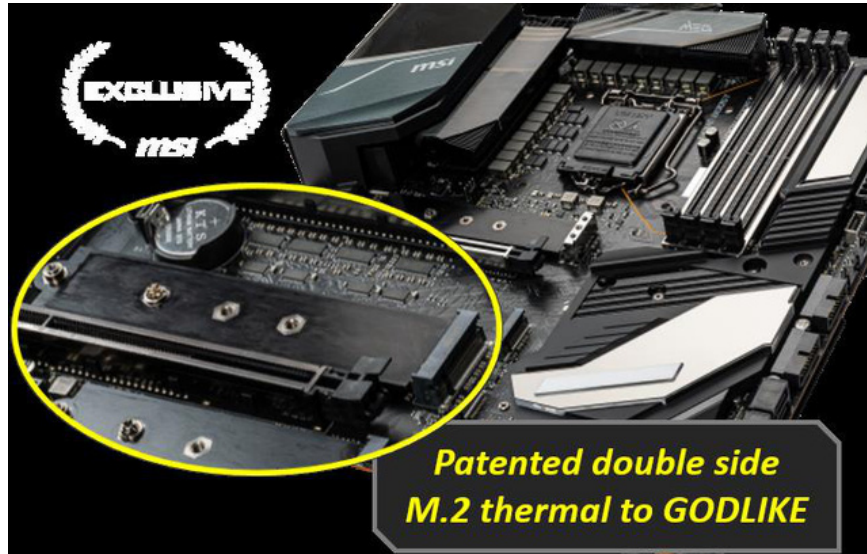
we can even find active heat sinks with cooling fans combined with aluminum foil heat sinks instead of conventional metal blocks to increase the area exposed. gas. This is a strategic weapon if you are looking for a motherboard with good overclocking capabilities.



Not only high-end MEG products, MSI also does a good job of cooling for other product lines such as MPG, MAG or even PRO Series. On all these product lines, the large aluminum VRM heatsink that extends all the way to the I / O shield is now a trademark.



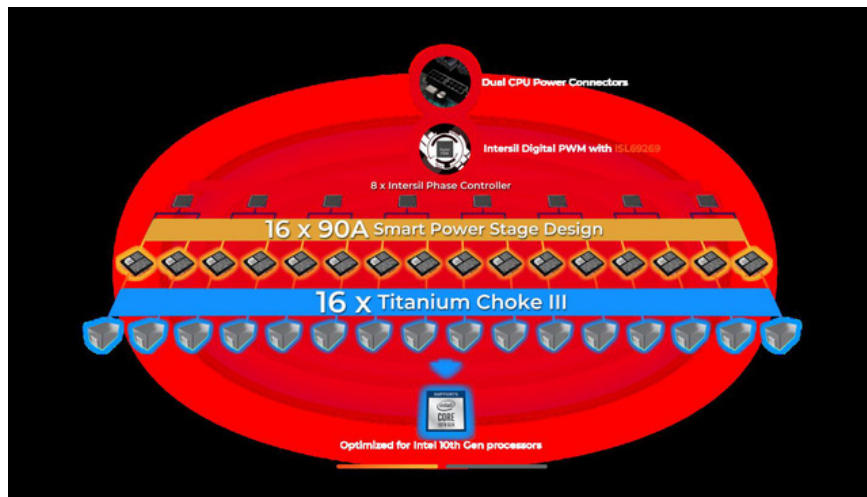
Not only is VRM heatsink, MSI also focuses on other components of the user. For example, the M.2 Shield Froze heatsink to cool the M.2 SSD can be found on all these new motherboard products. Previously, only high-end products were noticed by the manufacturer, but now MSI has nearly universalized the important feature to keep the M.2 SSD hotter because of the increased performance. Continuous gain is cool operation. But that does not mean that MSI has neglected to create with the MEG Z490 GODLIKE, the patented two-sided M.2 heatsink will be a remarkable feature for users interested. performance.



### VRM circuit for Intel 10 core CPU

Ever since Intel responded to the game on CPU multiplier, VRM circuits have become increasingly important on motherboard products. Understanding that, MSI has used the great VRM circuit design on the motherboards of the 10th Generation Intel Core I CPU.

If you choose the high-end MEG Z490 GODLIKE or MEG Z490 ACE, you will own a VRM circuit using the Mirrored Power Arrangement design that comes with a control IC from ISL to double the number of power phases for the CPU. Specifically, the 16 Smart Power Stage system with a capacity of 90A per Stage combined with the 3rd generation Titanium core chokes will provide CPUs such as Intel Core i9-10900K 10 cores 20 cores to provide a lot of "clean" power. and the most stable.



What if choosing a product line like MPG, MAG or PRO-Series? At a minimum, you will have 12-phase VRM circuits using the Dual Rail Power System design on the Z490A-PRO, compared to the previous generation, this is a significant increase.

## High speed connection

A powerful system would not be perfect without high-speed connections. What is noticeable on this board is that the LAN port speed has been raised to 2.5Gbps, which is 2.5 times higher than the usual LAN ports on the board launched not too long ago or if you want to take advantage of both LAN ports, a high speed 2.5Gbps, a traditional speed of 1Gbps to reduce the load for the CPU, right on the mid-range MAG Z490 TOMAHAWK product line has this feature. Even on MEG Z490 GODLIKE, the gigantic LAN port of 10Gbps SUPER LAN will help you transfer data in the local network with the largest bandwidth.



And if you are interested in wireless connectivity? The fastest wireless connection right now - WIFI 6 - for 2.4Gbps speed that comes with Bluetooth 5.1 will be found on the following boards:

- MEG Z490 GODLIKE
- MEG Z490 ACE
- MPG Z490 GAMING PRO CARBON WIFI
- MPG Z490 GAMING EDGE WIFI and MPG Z490M GAMING EDGE WIFI



Of course, with the MEG Z490 GODLIKE, a 40Gbps Thunderbolt connection will be a highlight of this product line. And on MPG Z490 GAMING PRO CARBON WIFI and MPG Z490 GAMING EDGE WIFI, you'll find a USB 3.2 2x2 connection at 20Gbps speed thanks to the ASMedia 3241 controller chip.

### **And there is no shortage of exclusive features**

MSI has continuously pursued the personalization of computers with the users' colors since the beginning with the MSI Mystic Light software that comes with a diverse ecosystem. So being able to find pins for devices using RGB Addressable LEDs on all new generation motherboards is completely understandable.



If you want the uniqueness? The OLED Dynamic Dashboard II display on MEG Z490 GODLIKE has now been upgraded to a color screen that will help you unleash your performance.

Last but not least, the I / O port shield is now integrated directly into the board to help you avoid unfortunate situations when the computer is installed to discover that you forgot to install this shield !!!

Details of this new generation motherboard can be found at:

<https://vn.msi.com/Landing/intel-z490-b460-motherboard>

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