After opening my gaming studio, I first needed perfect gaming motherboards capable of handling my gaming processors. At that time, I shortlisted these five motherboards of almost similar features with different sparks. I want to share my exclamatory experience with you all and want to enhance my knowledge as well. So let's take start with it, and here I am again, present with my practical experiences.

## ASUS ROG Strix B550-F Gaming Motherboard:

**Specifications:**

|  |  |
| --- | --- |
| Chipset | AMD B550 |
| CPU socket | AM4 |
| Audio | 5 x 3.5 mm |
| Ethernet controller | 1 x Intel 1225-V 2.5 gigabit |
| Wifi | 2 x connector (wifi 6) |
| Flashback | BIOS flashback |
| Memory slots | 4 x 288 pin |
| Memory support | DDR4 |
| Memory capacity | 128 GB |
| Channel | Dual channel |
| ECC support | Non-ECC |
| SATA | 6 x SATA III |
| Multi-GPU support | 2-way AMD CrossFireX |
| Lead header | 3 x RGB |
| Liquid cooling | 1 x 4 pin-pump |
| Audio support | 1 x speaker |
| BIOS ROM | 256 MB |
| Bluetooth | 5.1 |
| Operated system | Windows 10 |
| Dimensions (H x W x D ) | 2.8 x 10.8 x 13.4 |

While working in a gaming studio, most gaming motherboards were from ASUS. So I started my experience with one of them. The ASUS ROG STRIX B550-F is the best gaming motherboard with almost perfectly emphasized features. It is wide in compatibility and can give extraordinary effects during gaming if used with perfection. I had a great experience while using it and its speed and design were all outstanding and beyond my expectations.

**Robust power and connectivity:**

If a gaming motherboard has upper powers, it also has super connectivity. The same is the matter with ASUS B550-F. It features 12+2 power stages that enhance the working of the gaming processors that are connected with it. Apart from that, it has multiple LAN connectivity options that increase the data speed of the gaming processors.

**Amazing noise-canceling microphone:**

Another great feature I loved about this amazing gaming motherboard is the special noise-canceling microphone software that helps the user focus on the game evenly. It can easily support USB or Bluetooth headsets. It can easily distract the noise in your surroundings and preserve your voice's database.

**Outstanding thermal solution:**

I have some knowledge about gaming motherboards, so while purchasing this motherboard, I also focused on its thermal solution. Because if the thermal resolution of a gaming motherboard is not perfect, it can affect the working of your gaming processor. Luckily the gaming motherboard of ASUS B550-F is ideal by all means. It will easily control the overheating of the processor. It has customizable fanless VRM and chipset heatsinks that help the system run reliably.

**Benefits:**

* Maximum storage capacity
* Fastest data speed
* Powerful audio
* Super fast Wifi
* 2.5 GB LAN support

**Drawback:**

* Absence of front USB 3.2

## MSI MAG B550 TOMAHAWK Gaming Motherboard:

**Specifications:**

|  |  |
| --- | --- |
| CPU socket | AMD AM4 |
| Chipset | AMD B550 |
| Maximum supported memory | 128 GB |
| DIMM slots | 4 |
| Memory type | DDR4 |
| Memory speed | 5100 MHz |
| SATA | SATA VI |
| Audio channels | 7.1 |
| Onboard audio chipset | Realtek ALC1200 |
| Onboard video | Displayport, HDMI |

I got a gift pack from one of my colleagues, and as per my thinking, she gave me an enhanced gaming motherboard. It has some amazing features that are compatible with personal computers. Because of its wide compatibility, I could use it for a long period without negatively affecting its working. I am lucky to have this gaming motherboard by MSI in my gaming studio.

**Wide memory:**

Well, you will find it a bit unserious, but I must say that you should take the memory of this motherboard very seriously. Supported by dual-channel DDR4, this motherboard's memory is extraordinary in every aspect. It can handle all of your data and keep it safe for a long time. Apart from that space, it also has an effective memory speed of 4866 MHz.

**Mystic light:**

While reading the guide for MSI MAG B550, I was a little surprised to read about the lighting feature of the gaming motherboard. But once I started using it, I had a great experience. The RGB lighting modes of the MAG B550 have 16.8 million colors with 29 different effects. It also comes with extendable pin-headers that create a great impact on the gaming effects of the gaming motherboards and processors.

**Outstanding compatibility:**

As I was using this motherboard for the first time, I was a little tense about its compatibility. But after using it with multiple AMD Ryzen 3rd gen gaming processors, I was completely satisfied. The most important part that I want to discuss here is that not only with recent Ryzen 3rd gen thread rippers, it can also be used with future models of Ryzen Threadripper. All you have to do is to update the BIOS carefully.

**Boosted audio:**

While playing games you need boosted audio that does not negatively affect your game and fortunately, the MAG B550 gaming motherboard has a wonderful sound quality that creates a unique gaming environment for the gamers.

**Benefits:**

* Mystic light
* Fast data speed
* Pre-installed I/O shield
* 4-pin fan header to control overheating
* Easy-to-use UEFI

**Drawback:**

* HDMI port does not have a 4k option.

## ROG Crosshair VIII hero ATX Motherboard:

**Specifications:**

|  |  |
| --- | --- |
| CPU socket | AMD AM4 |
| Chipset | AMD X570 |
| Memory type | DDR4 |
| Memory size | 128 GB |
| CPU processors | AMD Ryzen |
| Number of LAN | 4 |
| Audio | ROG supreme FX8 channel |
| Audio support | 120 Db SNR stereo playback |
| SATA | 4 |
| ROM | 256 MB |
| Operating system | Windows 10 |
| Dimensions | 30. 5 cm x 24. 4 cm |

I am a fan of ROG gaming motherboards, so the next gaming motherboard I installed in my gaming studio was ROG X570 crosshair VIII hero, and I must say it is as heroic in working as its name.

**Lighting fast transfer speed:**

The heroic gaming motherboard is supported by a dual PCle 4.0 M.2 slot that provides the user NVMe SSD RAID support. This support system boosts up the speed of transferring data in a great way and can easily save the time of the users. Gaming motherboards need speed, and this gaming motherboard by ASUS is the best for the speedy transfer of data files. It levels up the performance of the gamer in an aesthetic way.

**Perfect audio solution:**

Professional gamers mostly prefer this gaming motherboard's Supreme FX audio solution as it can greatly impact the gaming environment. This audio solution of this heroic gaming motherboard makes sure that the sound that is listened to by the gamers is neutral and detailed. And to make it perfect, the front-panel output has dual op amps that deliver the sound perfectly.

**Friendly design:**

The friendly design of the gaming motherboard keeps the gamer in complete peace while playing games. Apart from that, it also impacts the working of gaming processors. It has a pre-mounted I/O shield and BIOS flashback that balances the gaming processors' performance, cooling, and compatibility.

**Cooling system:**

The active PCH heatsink of this great gaming motherboard keeps a complete check on the heating system of the gaming processors. To support it for absolute perfection, the M.3 aluminum heatsink and ROG cooling zone give an extraordinary performance for effective working.

**Benefits:**

* Multiple temperature sources
* Smart protection
* Feature-rich BIOS
* Fast power delivery
* Easy access to M.2 slots

**Drawback:**

* Bulky motherboard utilities

## Gigabyte B550 AORUS PRO-P Motherboard:

**Specifications:**

|  |  |
| --- | --- |
| CPU socket | AM4 |
| Chipset | AMD B550 |
| Flashback | BIOS |
| Memory slots | 4 x 288 pin |
| Memory support | DDR4 |
| Memory size | 128 GB |
| Channel architecture | Dual channel |
| Security | TPM module |
| Compatibility | Windows 10 |
| Form factor | Micro-ATX |
| Weight | 3.055 |
| Dimensions (H x W x D) | 2.8 x 10.6 x 10.8 |

**Compatibility test:**

While I worked in previous gaming studios, I had a habit of doing compatibility tests of Gigabyte gaming motherboards, so while purchasing it for my studio I did the compatibility test of I as well. And same as usual, it has outstanding compatibility with multiple AMD Ryzen 3rd gen thread rippers. It can also work with Radeon graphics processors and give special gaming effects.

**Powerful design:**

Gigabyte motherboards are famous for their strong structure, and I must say that this gaming motherboard strongly impacted my mind because of its power structure and design. It has a twin power design capable of doing great gaming work, and due to that, it can also give amazing gaming responses.

**Audio system:**

The audio system of this gigabyte gaming motherboard I perfect in all aspects. Supported by AMP-UP audio, it has a premium capacitor that enhances the audio delivery system of the gaming processors. This audio system creates a wonderful gaming environment and helps the user focus on the game more effectively.

**Heatsink system:**

The thermal solution of this gaming motherboard is my favorite feature. This thermal solution is supported by 50A drMOS advanced thermal design that keeps the processor cool and does not lead it towards overheating.

**Connectivity at its peak:**

I love this thing the most. It is best if the gaming motherboard has complete and enhanced connectivity options. And I must say that I go towards this gigabyte gaming motherboard because of its connectivity support. It has multiple connectivity options that help the gamer transfer data with complete perfection and boost speed. This superb connectivity is supported by ultra-durable PCle 4.0 with ready-to-go 16 slots. Apart from that, it also has DisplayPort and HDMI support with 2.5GbE LAN with bandwidth management.

**Benefits:**

* Wide compatibility
* Advanced thermal solutions
* Durable
* The larger amount of USB ports
* Strong audio

**Drawback:**

* No built-in Wifi

## ROG Maximus XIII Hero Gaming Motherboard:

**Specifications:**

|  |  |
| --- | --- |
| Memory type | DDR4 |
| Memory size | 126 GB |
| Memory speed | 460 MHz |
| Memory architecture | Dual channel |
| SATA | VI SATA channel |
| LAN | 2.5 GB Ethernet |
| USB port | 10 |
| Dimensions | 30.5 cm x 24.4 cm |

As I stated above, I love ROG gaming motherboards, so I installed another ROG gaming motherboard in my studio. While purchasing it, the thing that clicked in my mind was once again its heroic name. The ROG Crosshair XIII, hero gaming motherboard, is now the hero of my gaming studio.

**Controlling motherboard:**

As we all know the controlling ways of our mother, we also understand that some motherboards are also controlling. They can easily control the bad effects of your processors. In the same way, the heroic ROG XIII Maximus is a controlling motherboard that can easily grip the main features of your gaming processors. It has special software that is simple to set up and can easily improve the performance of compatible gaming processors. Supported by AI overlocking, AI networking, and two-way AI noise cancellation, it holds the grip of each effective gaming feature that may distract the users.

**High power networking and connectivity:**

This heroic motherboard has a built-in Wifi 6E with dual Ethernet and ASUS LANGUARD. Combined with PCle 4.0, quad M.2, and dual USB type C port, it boosts networking and connectivity. It can easily enhance the transfer speed of the data.

**Optimized thermal design:**

This amazing motherboard has a perfect audio design. It has enlarged VRM heatsinks with integrated aluminum I/O cover, with high connectivity thermal pad. This heating solution and thermal design also boost the working of the gaming processors.

**Power solution:**

The 14+2 teamed power system of this gaming motherboard enhances the working of the gaming processors. And this boosted work helps the gamer in getting an outstanding result. This power system of 90 Amps is supported by ProCool II power connectors, alloy chokes, and black metallic capacitors. It easily enhances the gaming effects of the gaming processors and creates a great impact on my mind.

**Benefits:**

* Exceptional DPC performance
* Solid power consumption
* AI overlocking
* Two-way noise cancellation
* Premium audio
* Dual ports
* Built-in Wifi 6E
* High-quality VRM

**Drawback:**

* High price