

# **HighPoint SSD7103 & ASUS ROG Maximus XI Hero (Wi-Fi)**

## **Compatibility Report**

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## 1. Conclusion

The ASUS ROG Maximus XI Hero (Wi-Fi) motherboard should be compatible with HighPoint's SSD line on the basis that it's chipset is in HighPoint's compatibility list, and the motherboard supports UEFI. In order to setup a Boot RAID with SSD7103 on this motherboard, Storage Device UEFI Option ROM needs to be enabled. Users should also note that when solely reliant on the Intel Z390 chipset, the motherboard can only support one PCIe 3.0 x16 slot, which can only achieve a bandwidth of x4. When other processors are installed, more PCIe 3.0 x16 slots can be made available, with full capacity bandwidth able to be allocated to these slots. In order to utilize HighPoint's SSD line to the fullest performance

capacity, users need to install the SSD controller into a PCIe 3.0 x16 slot with x16 bandwidth allocated to it.

## 2. Launch Date

September 2018

## 3. User Manuals

### a. URL

[https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG\\_MAXIMUS\\_XI\\_HERO/E14808\\_ROG\\_MAXIMUS\\_XI\\_HERO\\_WI-FI\\_UM\\_V2\\_WEB.pdf](https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG_MAXIMUS_XI_HERO/E14808_ROG_MAXIMUS_XI_HERO_WI-FI_UM_V2_WEB.pdf)

### b. Chipset/Motherboard : Intel Z390

Chipset	Intel® Z390 Chipset
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Source:

[https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG\\_MAXIMUS\\_XI\\_HERO/E14808\\_ROG\\_MAXIMUS\\_XI\\_HERO\\_WI-FI\\_UM\\_V2\\_WEB.pdf](https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG_MAXIMUS_XI_HERO/E14808_ROG_MAXIMUS_XI_HERO_WI-FI_UM_V2_WEB.pdf) pg. ix

## 4. Physical Properties

### a. Form Factor :

Form Factor	ATX Form Factor, 12" x 9.6" (30.5 cm x 24.4 cm)
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Source:

[https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG\\_MAXIMUS\\_XI\\_HERO/E14808\\_ROG\\_MAXIMUS\\_XI\\_HERO\\_WI-FI\\_UM\\_V2\\_WEB.pdf](https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG_MAXIMUS_XI_HERO/E14808_ROG_MAXIMUS_XI_HERO_WI-FI_UM_V2_WEB.pdf) pg. xiv

### b. Riser Cards/Brackets:

N/A

## 5. System BIOS Setting

### a. UEFI : Yes.

BIOS	1 x 128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI3.0, SM BIOS 3.1, ACPI 6.1
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Source:

[https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG\\_MAXIMUS\\_XI\\_HERO/E14808\\_ROG\\_MAXIMUS\\_XI\\_HERO\\_WI-FI\\_UM\\_V2\\_WEB.pdf](https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG_MAXIMUS_XI_HERO/E14808_ROG_MAXIMUS_XI_HERO_WI-FI_UM_V2_WEB.pdf) pg. xiv

**b. Option ROM/Boot from Storage Devices: Yes.**

**Boot Device Control**

This item allows you to select the type of devices that you want to boot.

Configuration options: [UEFI and Legacy OPROM] [Legacy OPROM only] [UEFI only]

**Boot from Network Devices**

This item allows you to select the type of network devices that you want to launch.

Configuration options: [Ignore] [Legacy only] [UEFI driver first]

**Boot from Storage Devices**

This item allows you to select the type of storage devices that you want to launch.

Configuration options: [Ignore] [Legacy only] [UEFI driver first]

**Boot from PCI-E/PCI Expansion Devices**

This item allows you to select the type of PCI-E/PCI expansion devices that you want to launch.

Configuration options: [Legacy only] [UEFI driver first]

Source:

[https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG\\_MAXIMUS\\_XI\\_HERO/E14808\\_ROG\\_MAXIMUS\\_XI\\_HERO\\_WI-FI\\_UM\\_V2\\_WEB.pdf](https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG_MAXIMUS_XI_HERO/E14808_ROG_MAXIMUS_XI_HERO_WI-FI_UM_V2_WEB.pdf) pg. 3-23

**5. PCIE Configuration**

**a. How many PCIe slots?**

Six slots – Please note, the user manual states that full capacity bandwidth to a PCIe 3.0 x16 slot can only be achieved via Socket 1151 for 9<sup>th</sup>/8<sup>th</sup> Gen Intel Core, Pentium Gold and Celeron processors installed on the motherboard. Relying solely on the Intel Z390 chipset means that only 1 x PCIe 3.0 x16 slot is available, and maxes out at x4

mode. This is because the PCIe x16\_3 slot shares bandwidth with SATA6G\_5 and SATA6G\_6. The PCIe x16\_3 runs x2 mode by default.

<b>Expansion Slots</b>	<p><b>Socket 1151 for 9<sup>th</sup> / 8<sup>th</sup> Gen Intel® Core™, Pentium® Gold and Celeron® processors</b></p> <p>2 x PCIe 3.0 x16 slots (@x16 or x8/x8, x8/x4+x4)</p> <p><b>Intel® Z390 Chipset</b></p> <p>1 x PCIe 3.0 x16 slot (max. at x4 mode)*</p> <p>3 x PCIe 3.0 x1 slots</p> <p>* The PCIe x16_3 slot shares bandwidth with SATA6G_5 and SATA6G_6. The PCIe x16_3 runs x2 mode by default.</p>
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Source:

[https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG\\_MAXIMUS\\_XI\\_HERO/E14808\\_ROG\\_MAXIMUS\\_XI\\_HERO\\_WI-FI\\_UM\\_V2\\_WEB.pdf](https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG_MAXIMUS_XI_HERO/E14808_ROG_MAXIMUS_XI_HERO_WI-FI_UM_V2_WEB.pdf) pg. ix

The bandwidth of the PCIe x16\_3 slot can be adjusted to x4 with the following settings:

#### **PCIEX16\_3 Bandwidth**

- [X2] Run at X2 mode with SATA6G\_56 enabled.
- [X4] Run at X4 mode for higher performance with SATA6G\_56 disabled.

Source:

[https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG\\_MAXIMUS\\_XI\\_HERO/E14808\\_ROG\\_MAXIMUS\\_XI\\_HERO\\_WI-FI\\_UM\\_V2\\_WEB.pdf](https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG_MAXIMUS_XI_HERO/E14808_ROG_MAXIMUS_XI_HERO_WI-FI_UM_V2_WEB.pdf) pg. 3-20

#### **b. PCIe Length (Bandwidth) of each slot**

See above.

## **6. Secure Boot**

In order for ASUS ROG Maximus XI Hero (Wi-Fi) to work with Linux platforms and HighPoint's SSD line, secure boot must be disabled.

### **Secure Boot**

This item allows you to configure the Windows® Secure Boot settings and manage its keys to protect the system from unauthorized access and malwares during POST.

Source:

[https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG\\_MAXIMUS\\_XI\\_HERO/E14808\\_ROG\\_MAXIMUS\\_XI\\_HERO\\_WI-FI\\_UM\\_V2\\_WEB.pdf](https://dlcdnets.asus.com/pub/ASUS/mb/LGA1151/ROG_MAXIMUS_XI_HERO/E14808_ROG_MAXIMUS_XI_HERO_WI-FI_UM_V2_WEB.pdf) pg. 3-23