



Service and Support Department

Gaming Desktop - Enabling Resizable BAR

1. Eligibility Check

If your system is on the list, please proceed to Step 2.

Compatible Desktop	
DT Series	Marketing Name
Aegis RS	Aegis RS 10DS-217US
	Aegis RS 10TD-059US
	Aegis RS 10TD-067US
	Aegis RS 10TD-213US
	Aegis RS 10TE-054US
	Aegis RS 10TE-058US
	Aegis RS 10TE-066US
	Aegis RS 10TE-072US
	Aegis RS 10TE-081US
	Aegis RS 10TF-214US
	Aegis RS 10TG-091US
	Aegis RS 10TH-060US
	Aegis RS 10TH-061US
	Aegis RS 11TD-096US
	Aegis RS 11TE-095US
	Aegis RS 11TE-219US
Aegis RS 11TG-222US	
Aegis R	Aegis R 10TC-083US
	Aegis R 10TC-087US
	Aegis R 10TC-204US
	Aegis R 10TC-205US
	Aegis R 10TC-220US
	Aegis R 10TD-055US
	Aegis R 10TD-068US
Aegis R 10TG-069US	
Codex R	Codex R 10TC-027US
	Codex R 10TC-028US
	Codex R 10TD-022US
	Codex R 10TG-020US
	Codex R 10TG-021US
Infinite RS	Infinite RS 10TD-065US
	Infinite RS 10TD-080US
	Infinite RS 10TD-208US
	Infinite RS 10TE-063US
	Infinite RS 10TE-064US
	Infinite RS 10TH-062US
	Infinite RS 11TE-092US
Infinite RS 11TE-093US	

for specific technical requirements for Resizeable BAR, see *1.1

*1.1 Eligibility Check *supplemental*

Resizable BAR is available for systems with compatible CPU, VGA, and chipset, along with the latest BIOS and GeForce Game Ready driver:

Compatible Graphic Cards (NVIDIA Ampere)	
	RTX 3090
	RTX 3080 Ti
	RTX 3080
	RTX 3070 Ti
	RTX 3070
	RTX 3060 Ti
	RTX 3060

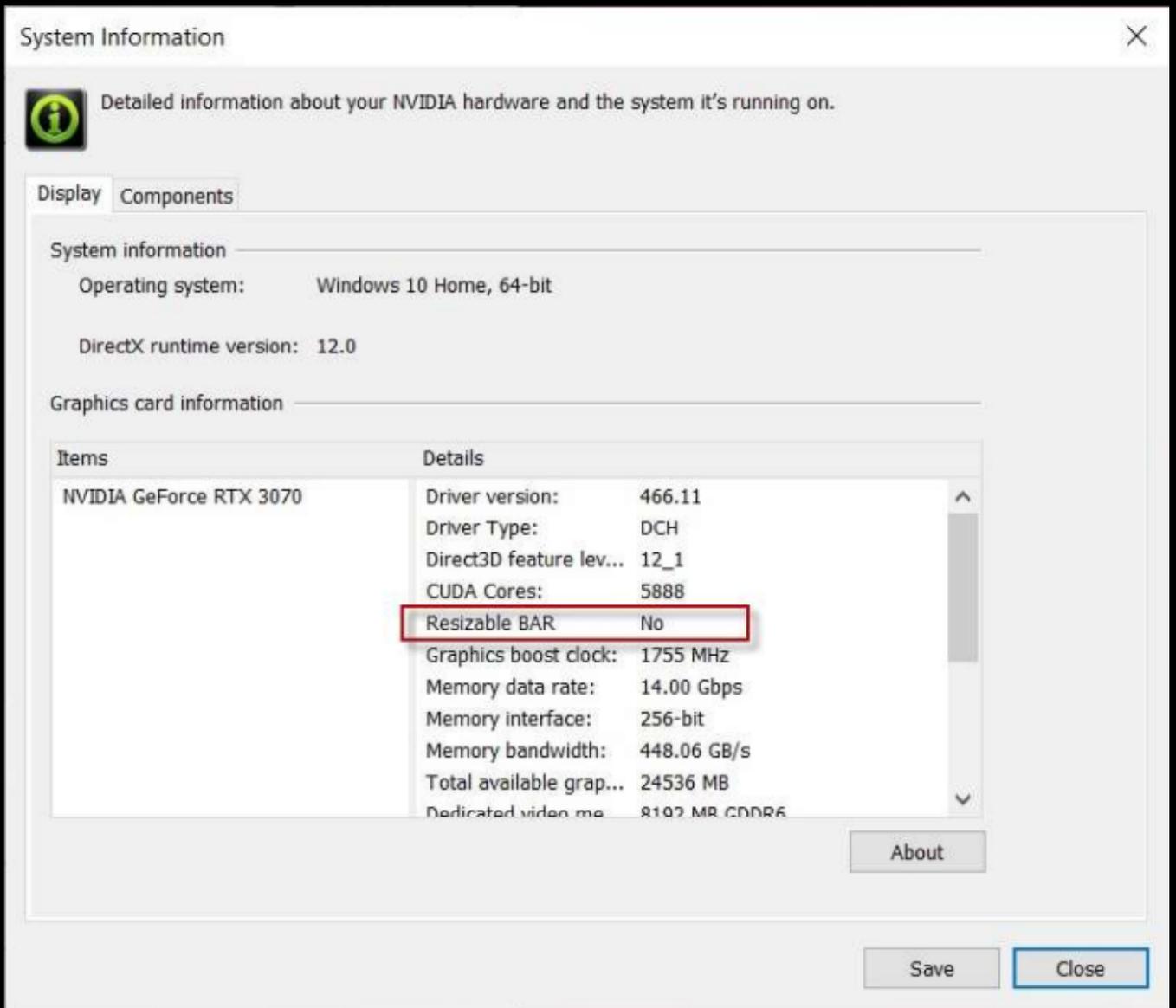
Compatible CPUs (Intel & AMD)		
Intel 10th Gen	Intel 11th Gen S	AMD Zen 3
i9-10xxx	i9-11xxx	Ryzen 3 5xxx
i7-10xxx	i7-11xxx	Ryzen 5 5xxx
i5-10xxx	i5-11xxx	Ryzen 7 5xxx
i3-10xxx		Ryzen 9 5xxx

Compatible Chipsets (Intel & AMD)	
Intel Series	AMD Series
Z590	X570
B560	B550
H510	A520
Z490	X470
B460	B450
H410	

2. Compatibility *Continue*

To verify Resizable BAR status, open NVIDIA Control Panel (right-click on Desktop) and select Help > System Information from the top menu.

If Resizable BAR is showing “No”, proceed to Step 3.



The screenshot shows the 'System Information' window from the NVIDIA Control Panel. It displays system and graphics card details. The 'Resizable BAR' status is highlighted with a red box and is set to 'No'.

System Information

Detailed information about your NVIDIA hardware and the system it's running on.

Display Components

System information

Operating system: Windows 10 Home, 64-bit

DirectX runtime version: 12.0

Graphics card information

Items	Details
NVIDIA GeForce RTX 3070	Driver version: 466.11
	Driver Type: DCH
	Direct3D feature lev... 12_1
	CUDA Cores: 5888
	Resizable BAR: No
	Graphics boost clock: 1755 MHz
	Memory data rate: 14.00 Gbps
	Memory interface: 256-bit
	Memory bandwidth: 448.06 GB/s
	Total available grap... 24536 MB
	Dedicated video me... 8102 MB GDDR6

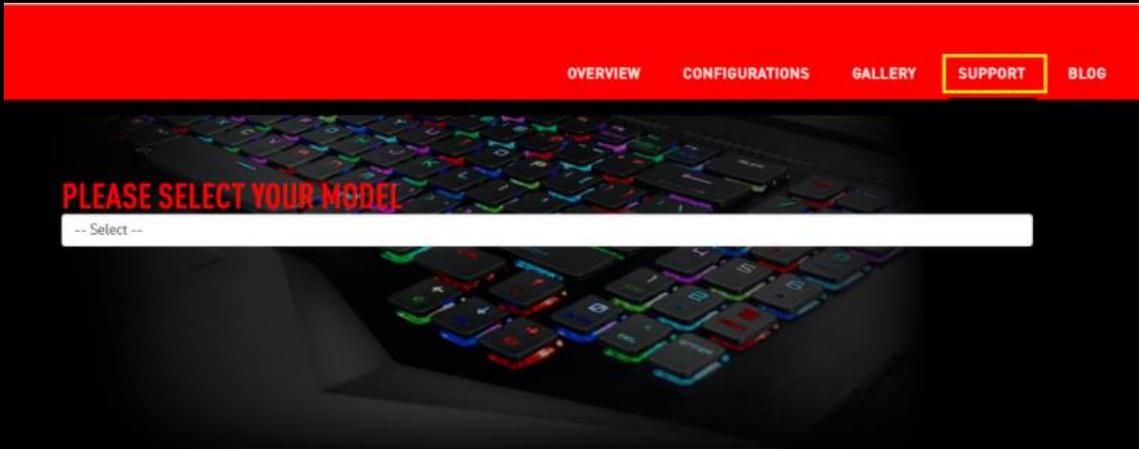
About

Save Close

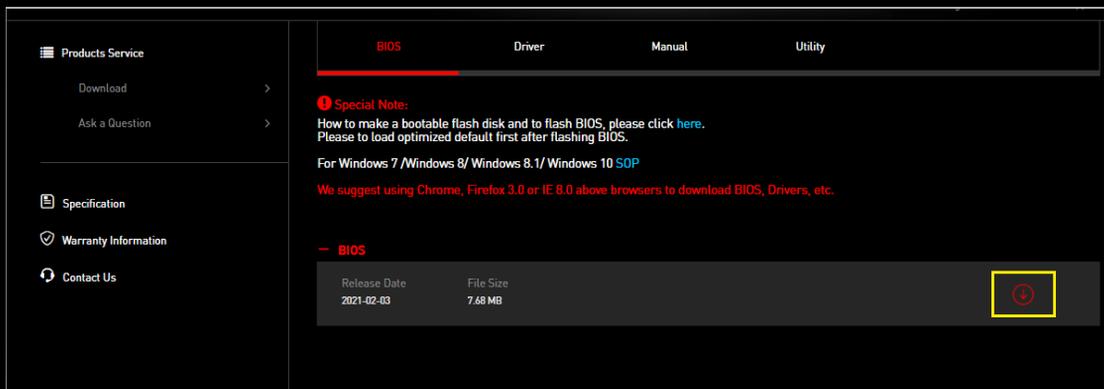
3. Updating the MB BIOS

To download and update to the latest BIOS for your system's motherboard, please follow the instructions below:

1. From <https://us.msi.com/Desktops> , go to your system's product page by clicking Support and selecting the model.



2. Download the latest BIOS, extract, and save its content onto a USB flash drive. Leave the USB drive inserted.

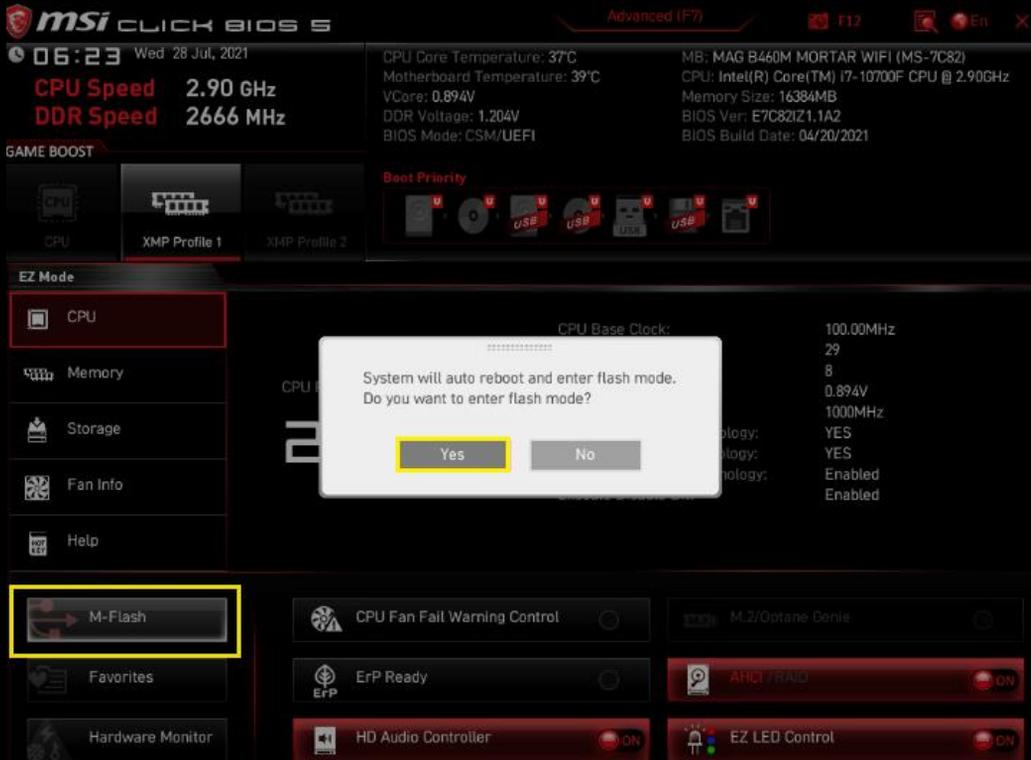


3. Restart your computer and enter BIOS by pressing "DEL" during boot up.

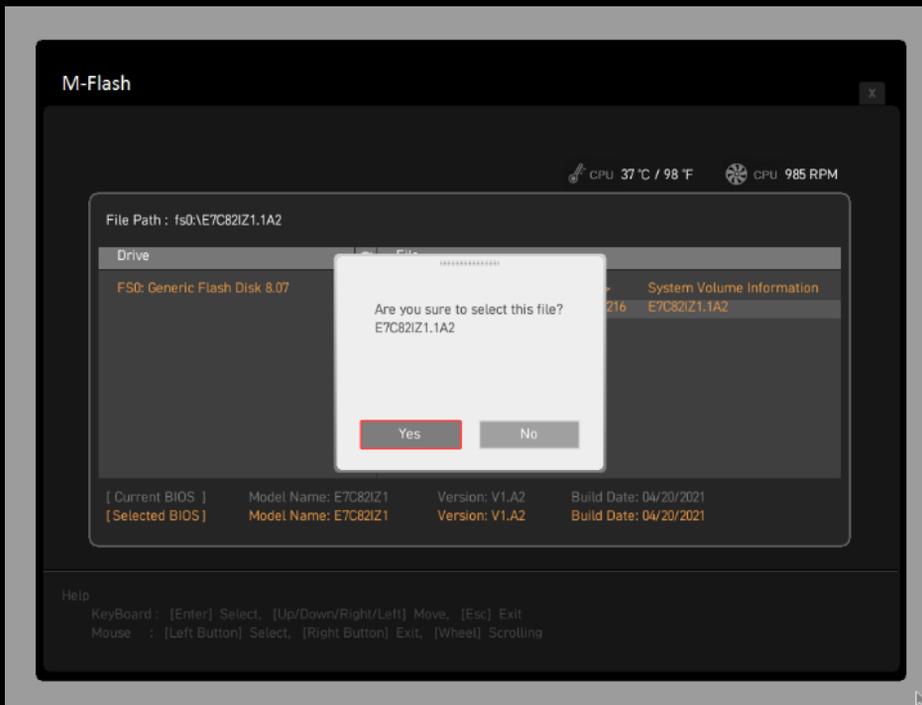


3. Updating the MB BIOS - cont'd

4. Press **M-Flash** and click “Yes” to enter M-Flash mode. *Alternatively, you can press “CTRL+ALT+T” to enter.*



5. Select the BIOS file that was saved onto the USB flash drive. Please make sure the PC is not turned off during this process.

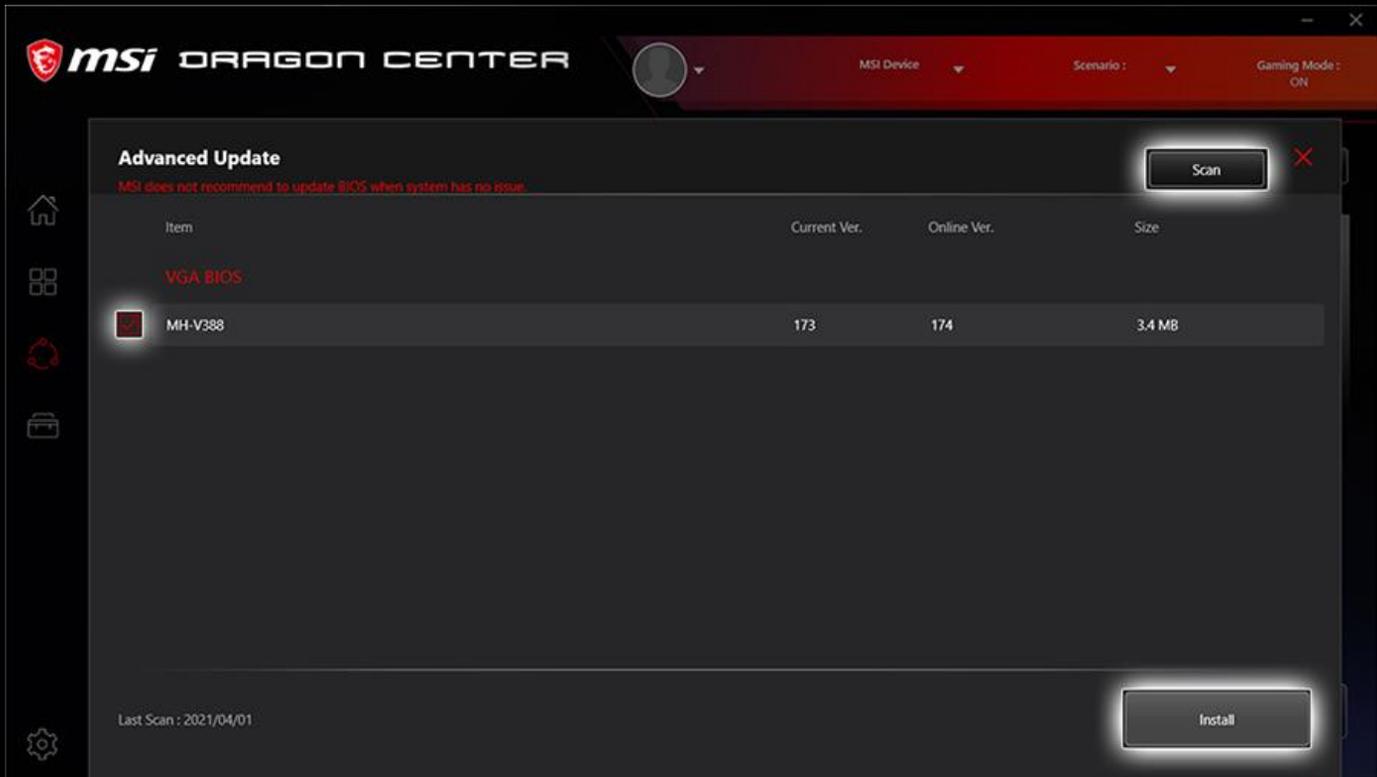


6. System will automatically reboot after the flash has completed.

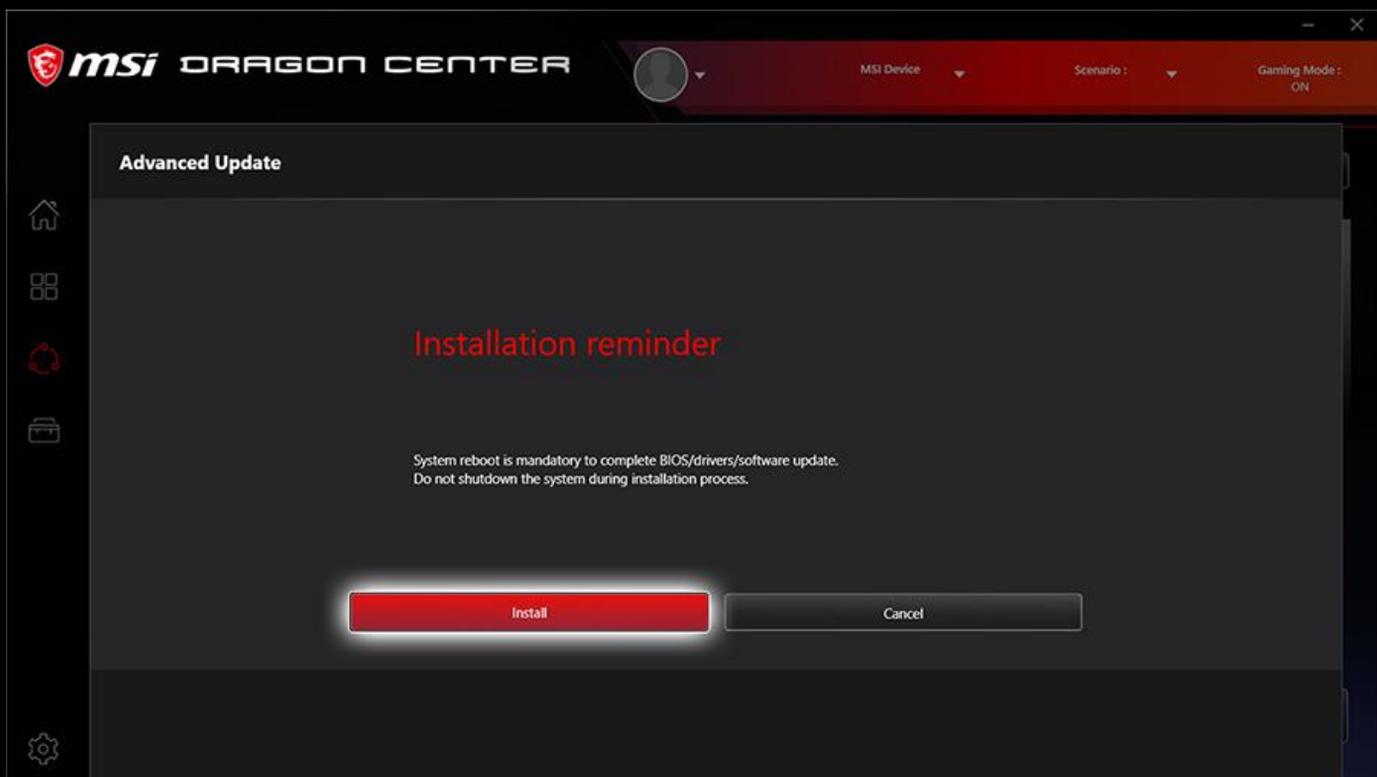
4. Updating the vBIOS

To enable Resizable BAR, compatible graphics cards require a vBIOS update through MSI Dragon Center or MSI Live Update.

At the top right corner of the Dragon Center menu, go to **Support, Advanced**, and click **“Scan”**.

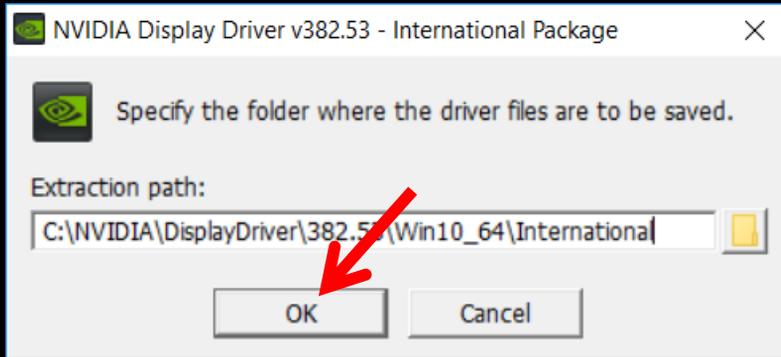


Once scanning is complete, the program will show any available firmware and/or vBIOS update. Please update to the latest vBIOS for your VGA by **checking the box in front of it, then click “Install”** and follow the instructions.

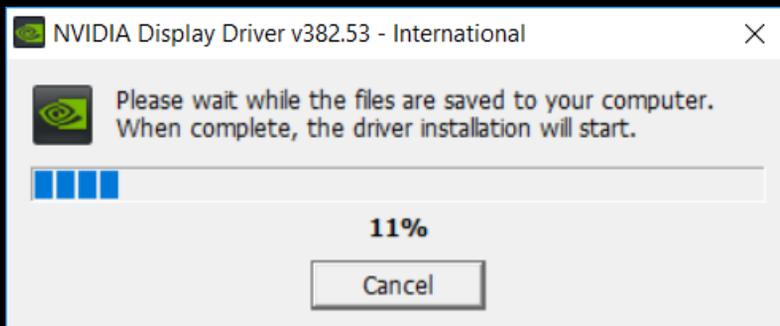


5. Updating the NVIDIA Drivers

Go to <https://www.nvidia.com/Download/index.aspx?lang=en-us> to download the latest NVIDIA drivers. Run the downloaded NVIDIA file and Click OK to extract the setup files **driver version at the time of download may be different*



Wait for the Extraction



Click on "Agree and Continue"



Select "Custom (Advanced)"



Click on "Next"



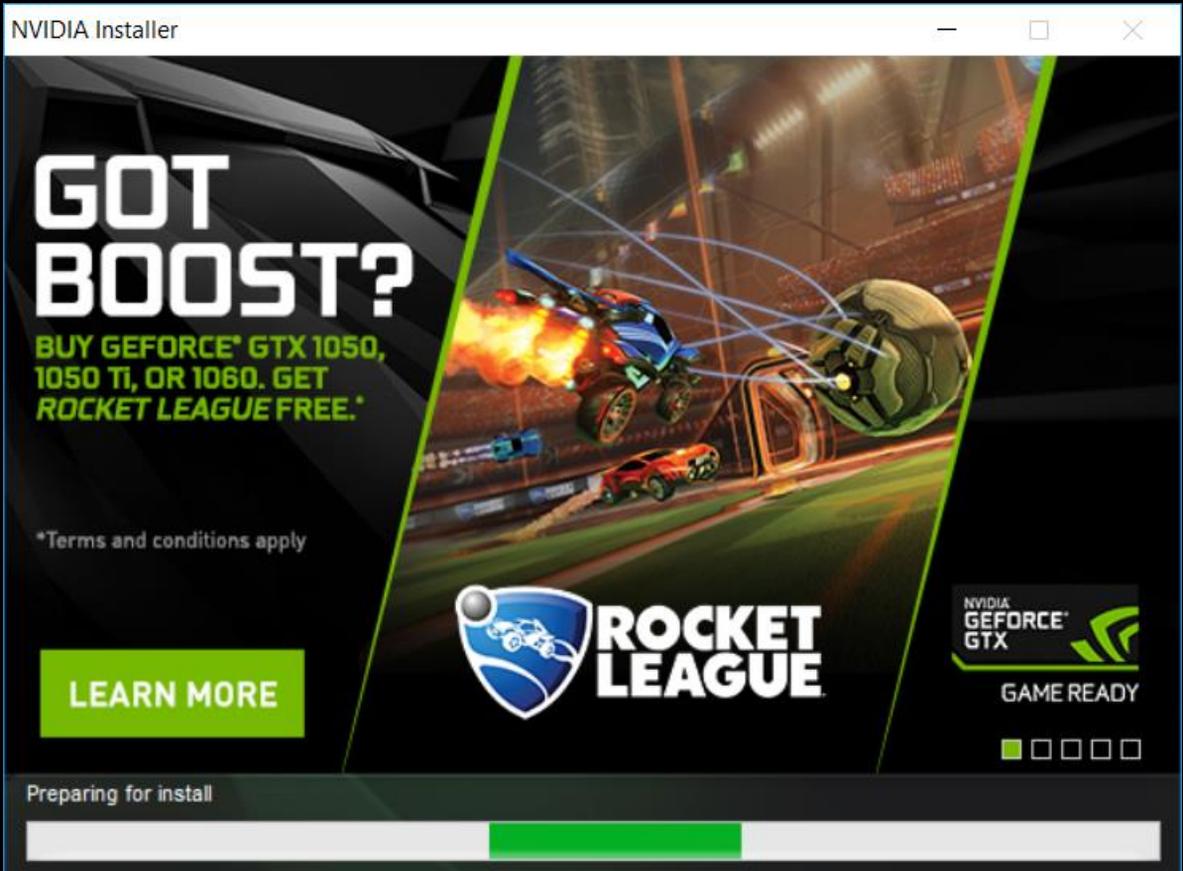
Check "Perform a Clean Installation"



Click on "Next"



Wait for process to complete



**Some systems will uninstall the drivers and then prompt for a reboot in between, please reboot and the new driver install will automatically resume after login*

When Installation is complete, click on “Close” and restart the PC.



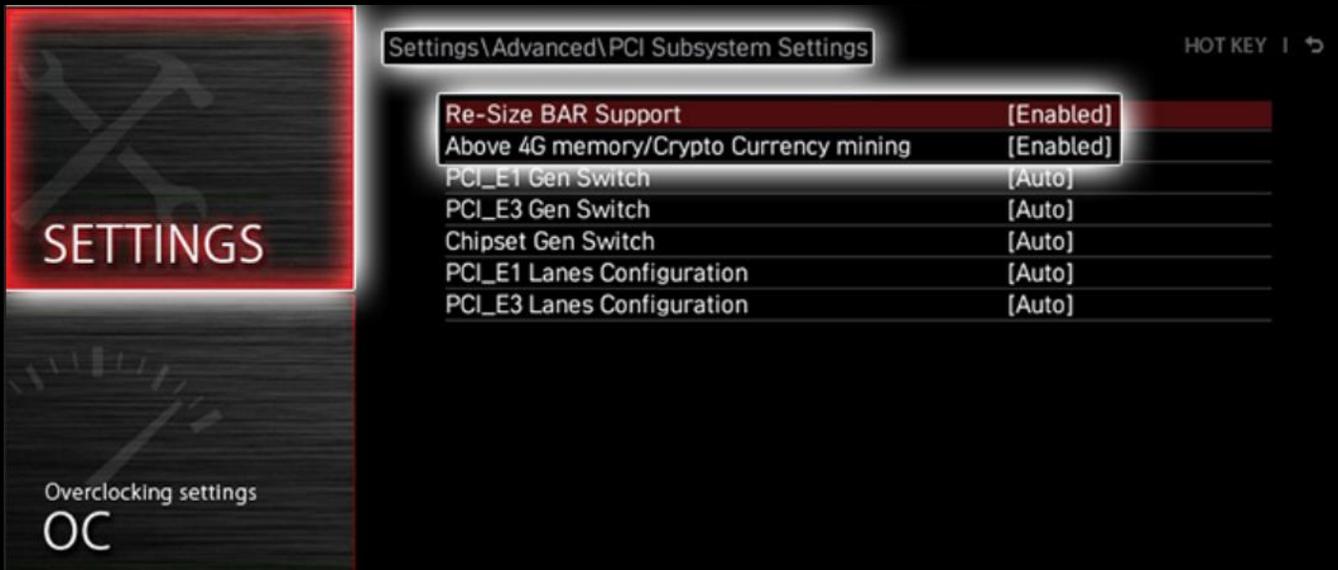
6. Enabling Resizable BAR under BIOS

Enter BIOS by restarting your system and pressing "DEL" during boot up. Go to "Settings > Advanced > PCI Subsystem Settings"

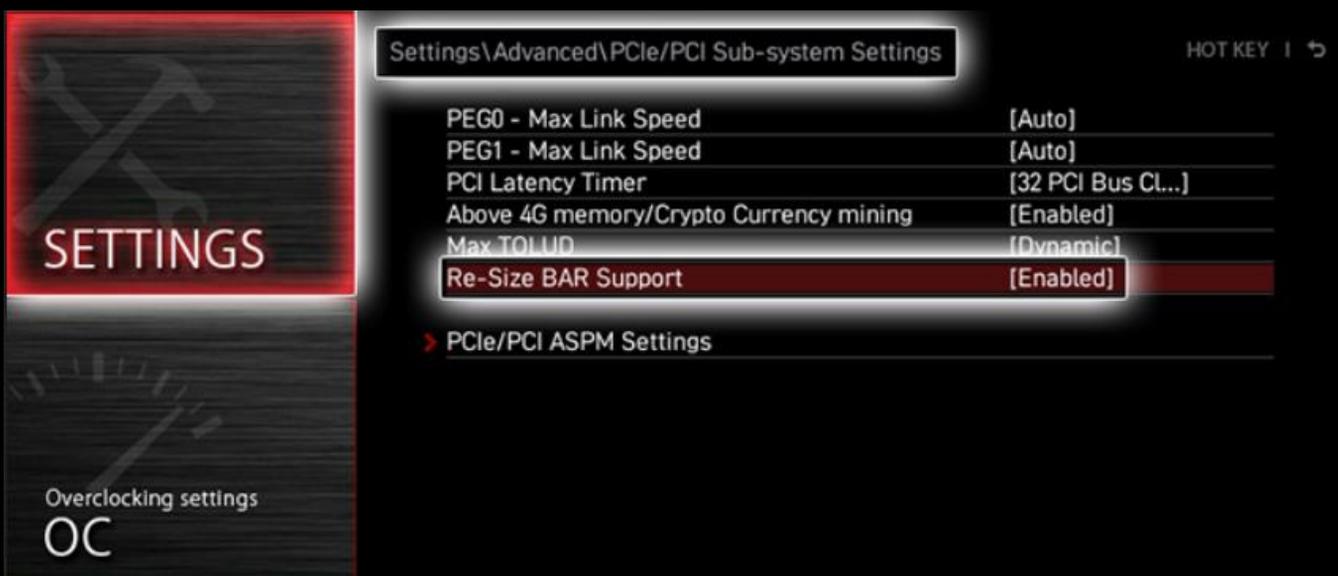
Enable the following settings:

- Re-Size BAR Support
- Above 4G memory/Crypto Currency mining

Then press "F10", to save the settings and reboot.



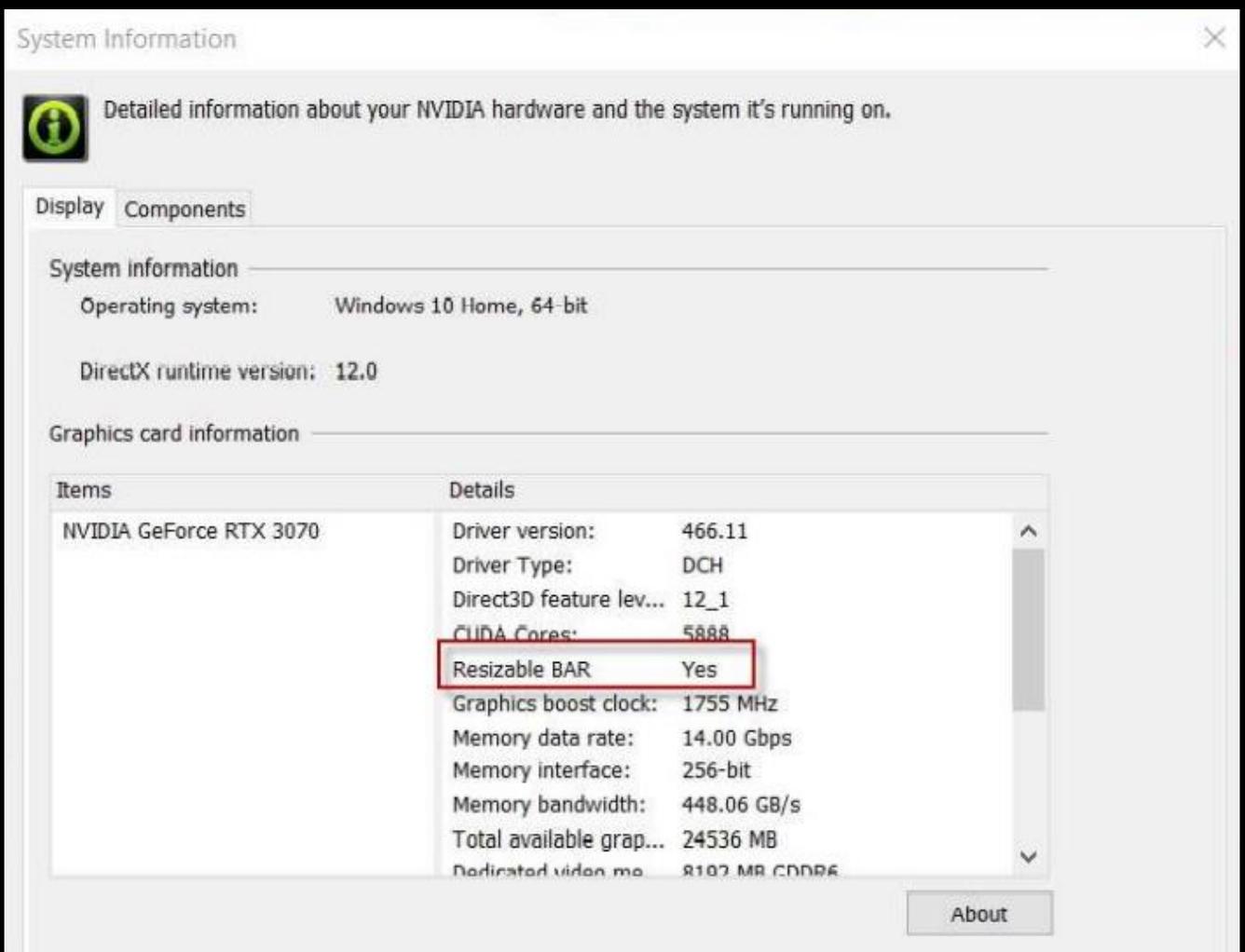
Menus may vary depending on motherboard model, but the Re-Size BAR Support sub-menu should always be there.



7. Verify Drivers Support Resizebar Feature

To verify Resizable BAR status , open the NVIDIA Control Panel and select “Help > System Information” from the menu.

Check if Resizable BAR is showing “YES”. If it is, your system is now Resizable BAR-ready. Congratulations!



The screenshot shows the 'System Information' window from the NVIDIA Control Panel. It provides detailed information about the NVIDIA hardware and the system it's running on. The window is divided into two tabs: 'Display' and 'Components'. The 'System information' section shows the operating system as 'Windows 10 Home, 64-bit' and the DirectX runtime version as '12.0'. The 'Graphics card information' section is expanded to show details for the 'NVIDIA GeForce RTX 3070'. A table lists various specifications, with 'Resizable BAR' highlighted in a red box, showing a status of 'Yes'.

Items	Details
NVIDIA GeForce RTX 3070	Driver version: 466.11
	Driver Type: DCH
	Direct3D feature lev... 12_1
	CUDA Cores: 5888
	Resizable BAR: Yes
	Graphics boost clock: 1755 MHz
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