BIOS update with the help of Q-Flash for Gigabyte B660M motherboards.

The installation guide is valid for the following Gigabyte motherboards:

- Gigabyte B660M DS3H AX DDR4 (20069821, 20070465, 20070466, 20070277)
- Gigabyte B660M GAMING X AX (20070278, 20070551)

Please follow the procedure below to install the bios update.

1. Download the bios update relevant to you via the appropriate link.

Gigabyte B660M DS3H AX DDR4:

https://cdn.medion.com/downloads/software/00_bios_d3f3-em.zip

Gigabyte B660M GAMING X AX:

https://cdn.medion.com/downloads/software/00_bios_ga_b660m_gaming_x_ax.zip

 Format a USB stick in Windows environment with the FAT32 file system.
 Info: The display information for storage capacity can vary depending on the USB stick used. The entry under volume name is not relevant here.

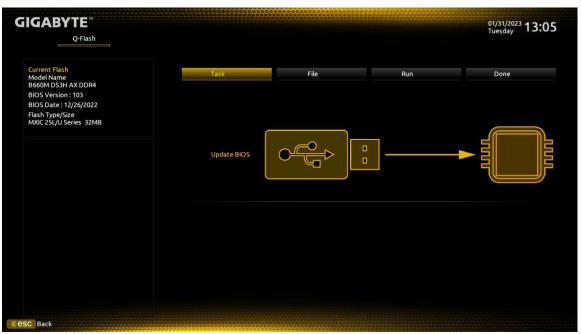
BIOS (F:) form	atieren	×
Speicherkapazi	tät:	
28,8 GB		~
Dateisystem:		
FAT32 (Standa	ard)	~
Größe der Zuor	dnungseinheite	n:
Standardgröße	e	~
Volumebezeichr	ards wiederherst nung:	tellen
		tellen
Volumebezeichr	nung: Isoptionen	tellen

Copy the contents of the extracted .zip file directly to the root directory of the USB stick without any subfolders and leave the USB stick plugged in.

Info: In this test the lowest USB port below the RJ45 LAN connection was used.

Gigabyte B660M DS3H AX DDR4 => GAB660MW0X.103 Gigabyte B660M GAMING X AX => GAB660MGXW0X.103

- 4. Restart the PC with the USB stick inserted (real restart). (Simply switching off and on does not achieve the goal).
- 5. Load the BIOS by pressing the **Del** key several times in a staccato manner until the display turns black
- 6. Call up the Q-Flash program (bottom right) by pressing the **F8** key.
- 7. Then click Q-Flash Task Menu with the mouse pointer onton the image of the USB stick (see Fig. 01)..



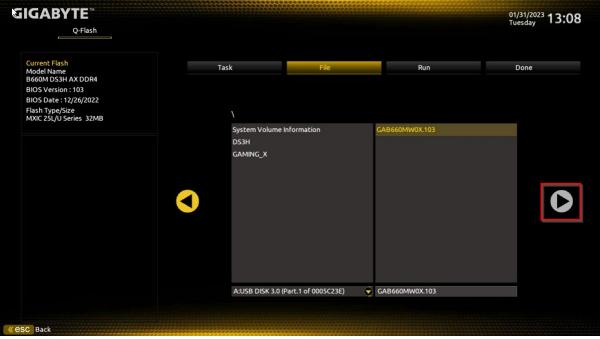
(Fig. 01: Q-Flash Task Menue)

In the right-hand window, select the Bios file to be installed (see Fig. 02).
 <u>Info:</u> If no contents are displayed there, please use an alternative USB stick.

IGABYTE [™] 				01/31/2023 13:08 Tuesday
Current Flash Model Name B660M DS3H AX DDR4 BIOS Version : 103	Task	File	Run	Done
BIOS Date : 12/26/2022 Flash Type/Size MXIC 25L/U Series 32MB		ne Information	GAB660MW0X.103	
	DS3H GAMING_X			0
	A:USB DISK 3.	.0 (Part.1 of 0005C23E)	GAB660MW0X.103	

(Fig. 02: Q-Flash File Menue)

9. In the next step, click with the mouse pointer on the arrow next to the selected BIOS file in the Q-Flash File menu (*see Fig. 03*) to enter the next menu.



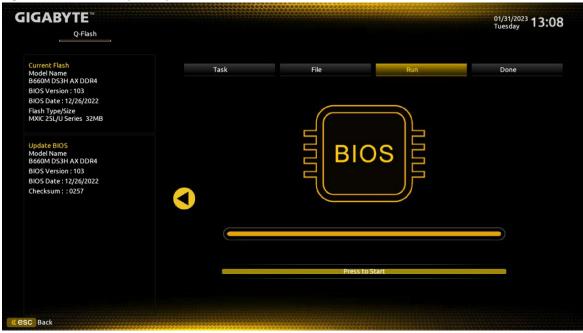
(Fig. 03: "Continue arrow" Q-Flash File Menue)

10. Start the update within the Q-Flash Run menu (see fig. 04) by pressing the Enter key twice ("YES" option).

GIGABYTE [™] Q-Flash				01/31/2023 Tuesday 13:08
Current Flash Model Name B660M DS3H AX DDR4 BIOS Version : 103 BIOS Date : 12/26/2022	Task	File	Run	Done
Flash Type/Size MXIC 25L/U Series 32MB		Update BIOS ×		
«esc Back				

(Fig. 04: Q-Flash Run Menue)

11. After confirmation click with the mouse pointer on "**Press to Start**" in the following window *(see Fig. 05)* to start the update process.



(Fig. 05: Q-Flash Run Menue)

- 12. The computer will be restarted several times during the update process, which is indicated by another status message (*see fig. 06*). Confirm this message also by pressing "**Ok**".
- 13. **Important:** Please do never interrupt this process to avoid possible loss of data and damage to hardware and software!

Q-Flash				01/31/2023 13:0 Tuesday
Current Flash Model Name B660M DS3H AX DDR4	Task	File	Run	Done
BIOS Version : 103				
BIOS Date : 12/26/2022				
Flash Type/Size MXIC 25L/U Series 32MB				
Update BIOS Model Name B660M DS3H AX DDR4		Update BIOS 🛛 🗙 der to make complete update,	os 🛛	
BIOS Version : 103	A syste	der to make complete update, em is going to shutdown. sh will continue after restart.		
BIOS Date : 12/26/2022	QFIa			
Checksum : : 0257		Ok		
		Press to	Start	

(Fig. 06: "Restart-Information" Q-Flash Run Menue)

Special case for systems with Optane drives

MSN 40071534 SSD INTEL 512GB HBRPEKNX0202A M.2 H10

After the BIOS update or during reboots, PC systems with the above listed Optane drive may display the following message, whereby the system only boots into the BIOS:

"Abnormal status reported by Rapid Storage Technology UEFI driver."

In this case, proceed as follows:

- 1. Switch on the "Advanced Mode" by pressing "F2".
- 2. Now click on "Settings" in the menu bar at the top (see Fig. 07) and then select the menu item "IO Ports".

GIGAB	BYTE™		ADVA				01/31	(/2023 13:18 day
	Favorites (F11)	Tweaker	Settings	System Info.	Boot	Save & Exit	Tues	day 10110
 Platform 	Power							
 IO Ports 							CPU	
 Miscellar 	neous						Frequency	BCLK
Option S	earch (Hot Key: Alt-F)						3991.90MHz 0.00	99.75MHz
							Temperature	Voltage
 PC Healt 	h Status						37.0 °C	1.188 V
							Memory	
							Frequency	Size
							3192.19MT/s	16384MB
							Ch A/B Volt	
							1.215 V	
							Voltage	
							+5V	+12V
							5.032 V	12.186 V
							VCCSA	
							0.928 V	
IO Ports	Settings							
					Help (F1)	Easy Mode (F2)	Smart Fan 6 (F6)	Q-Flash (F8)

(Fig. 07: "Settings" Advanced Mode Menue)

3. Now click with the mouse pointer on the submenu "VMD setup menu" (see Fig. 08).

GIGABYTE [™]						01/31/2023 Tuesday 13:19	
Favorites (F11)	Tweaker	Settings	System Info.	Boot	Save & Exit	Tues	day ISIIS
Initial Display Output Internal Graphics DVMT Pre-Allocated Aperture Size OnBoard LAN Controller Audio Controller		PCIe 1 Slot Auto 60M 256MB Enabled Enabled				CPU Frequency 3991.90MHz 0.00 Temperature 37.0 °C	BCLK 99.75MHz Voltage 1.185 V
Above 4G Decoding Re-Size BAR Support IOAPIC 24-119 Entries Super IO Configuration USB Configuration Network Stack Configuration NVMe Configuration		Auto Auto Enabled				Memory Frequency 3192.19MT/s Ch A/B Volt 1.218 V	Size 16384MB
VMD setup menu Acoustic Noise Settings Intel(R) Rapid Storage Technology Realtek PCIe 2.5GBE Family Control		3: 6 D:E2:1D)				Voltage +5V 5.025 V VCCSA 0.928 V	+12V 12.186 V
VMD Configuration settings							
esc Back				Help (F1)	Easy Mode (F2)	Smart Fan 6 (F6)	Q-Flash (F8)

(Fig. 08: Submenue "VMD setup menu" im Advanced Mode Menue)

4. Please check "VMD setup menu" (see Fig. 09) whether the setting "Enable VMD controller" is set to "Disabled" and change it accordingly to the status "Enabled".

GIGABYTE						01/31, Tuord	01/31/2023 13:21 Tuesday	
Favorites (F11)	Tweaker	Settings	System Info.	Boot	Save & Exit	Tuesd	ay totet	
VMD Configuration								
Enable VMD controller		Disabled				CPU Frequency 3991.68MHz 0.00 Temperature 36.0 °C	BCLK 99.75MHz Voltage 1.188 V	
						Memory Frequency 3192.19MT/s Ch A/B Volt 1.215 V	Size 16384MB	
						Voltage +5V 5.032 V VCCSA 0.928 V	+12V 12.168 V	
Enable/Disable to VMD controlle	r							
				Help (F1)	Easy Mode (F2)	Smart Fan 6 (F6)	Q-Flash (F8)	
« esc Back								

(Fig. 09: Submenue "VMD Configuration im Advanced Mode Menue)

- 5. Save the BIOS settings you have made and start the system by pressing and confirming the "**F10**" key.
- 6. The PC will now boot the Windows operating system even with an Optane drive.