



DMA Series

DIGITAL MIXER-AMPLIFIERS

DMA101 / DMA201/ DMA401

FIRMWARE UPDATE GUIDE



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INTRODUCTION

The DMA amplifier uses two types of firmware:

DMA USB Hardware Firmware — This firmware is upgraded through the USB interface on the unit's rear panel. The new firmware, downloaded from the AtlasIED website, should be copied to a USB thumb drive formatted with the FAT32 file system.

DSP/UI Cloud Firmware — This firmware is downloaded from the cloud using the DMA Control App. Once downloaded, the file is copied to a FAT32 file system-formatted USB drive. The firmware is updated by inserting the drive into the USB Port on the rear panel. Refer to Steps 2–5 for more information.

The installed version of each type of firmware can be identified using the amplifier's front panel display or the DMA Control App. Refer to **Step 1 - Identify the Firmware Loaded on the DMA Amplifier** for more information.

SUMMARY OF STEPS

1. Identify the Firmware Loaded on the DMA Amplifier
2. Verify the USB Drive Uses the FAT32 Format
3. Download the Firmware Files from the AtlasIED Website
4. Extract the DMA Firmware Files
5. Update the DMA Host Hardware Firmware
6. Update the DSP/UI Firmware Via the Cloud
7. Verify USB Drive Properties
8. Reformat USB Drive to FAT32 (If Needed)

DMA Series

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DMA101 / DMA201/ DMA401



FIRMWARE UPDATE GUIDE

STEP 1 - IDENTIFY THE FIRMWARE LOADED ON THE DMA AMPLIFIER

The current version of both types of firmware on the amplifier can be identified in two ways.

Front Panel Display Method

To view the current firmware versions in the amplifier's front panel display:

- Turn off or unplug the DMA AC mains to the DMA amplifier.
- Wait 1 minute and then restore power to the amplifier. As it reboots, the display will show the version of each type of firmware.



DSP / UI Cloud
Firmware Revision

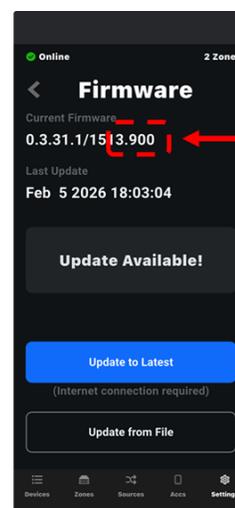
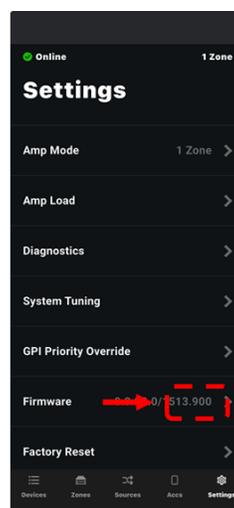
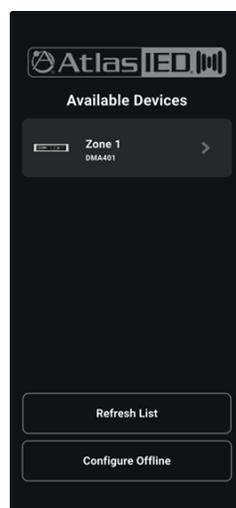


HOST USB
Firmware Revision

DMA Control App Method

The fastest way to locate the versions of the firmware is by pairing the DMA Control App with the DMA amplifier.

- Log in to the DMA Control App and connect to the DMA amplifier.
- Navigate to the **Settings** page.
- Scroll to **Firmware**. The currently installed version of each type of firmware displays.
- Go to the [AtlasIED DMA amplifier product web page](#).
- Click **Support Files** and compare the firmware versions listed on the website to the firmware versions listed in the DMA Control App.



DMA Series

DIGITAL MIXER-AMPLIFIERS

DMA101 / DMA201/ DMA401



FIRMWARE UPDATE GUIDE

STEP 2 - VERIFY THE USB DRIVE USES THE FAT32 FORMAT

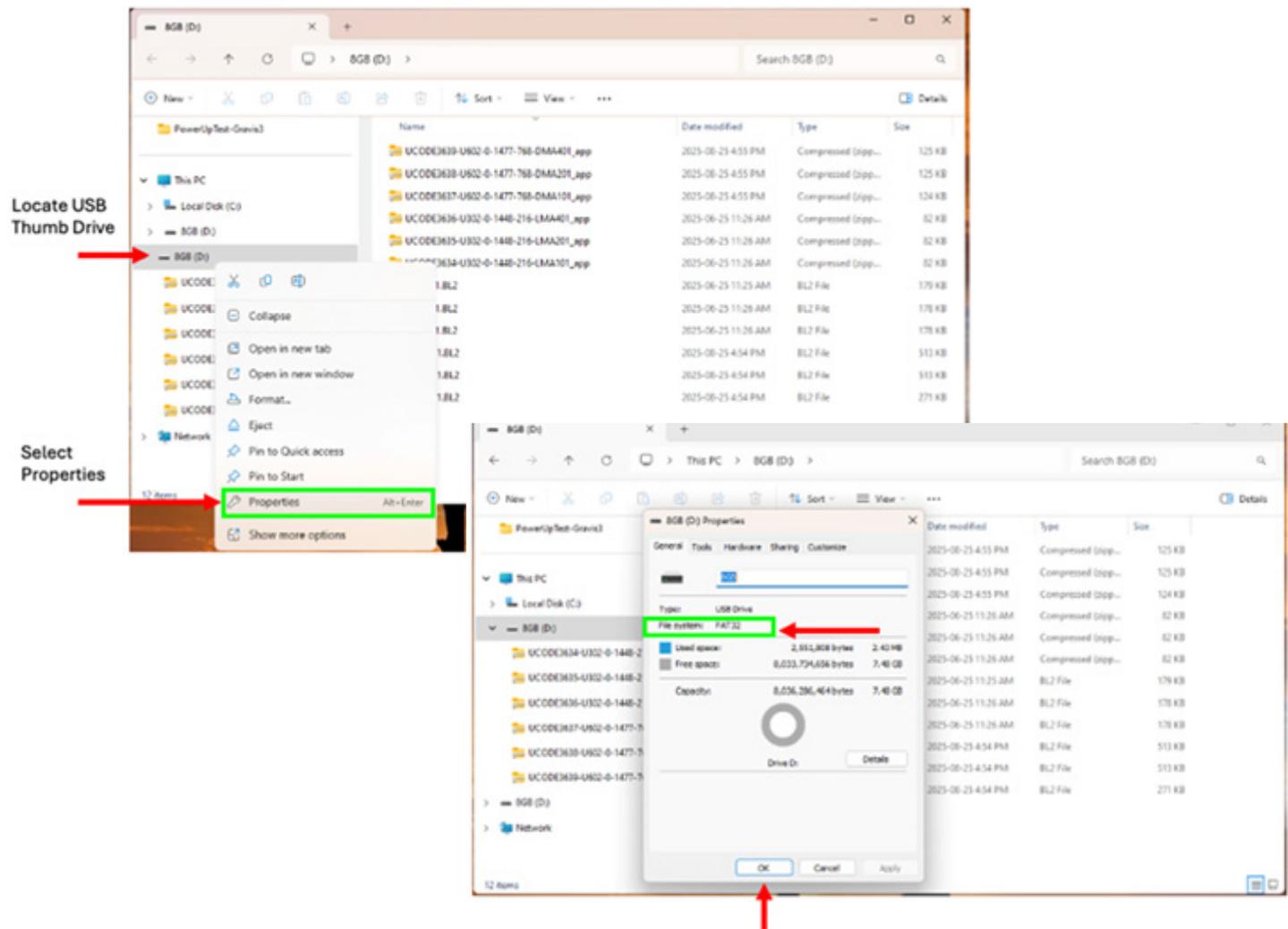
It is critical that the USB drive selected is formatted to the FAT32 file system.

Note: Most USB drives with a storage capacity equal to- or less than 32 GB are preconfigured with the FAT32 file system. Memory drives with a capacity greater than 32 GB are not.

Note: If a USB drive is NOT formatted to FAT32, it cannot be used to update DMA firmware.

To determine whether a USB is configured with the FAT32 file system, do the following.

- Insert the USB drive into a USB port on a PC.
- In the navigation pane, locate and then right-click the USB drive.
- Click **Properties**.
- Verify that the USB drive is formatted to FAT32. If it is, continue to **Step 3**. If it is not, the USB drive can be formatted to the FAT32 system. Refer to **Step 8**.



DMA Series

DIGITAL MIXER-AMPLIFIERS

DMA101 / DMA201/ DMA401



FIRMWARE UPDATE GUIDE

STEP 3 - DOWNLOAD THE FIRMWARE FILES FROM THE ATLASIED WEBSITE

To download an updated firmware file from the AtlasIED website, do the following.

- A. Navigate to <https://www.atlasied.com>.
- B. In the search box, type the model name of the amplifier (e.g., DMA401).
- C. Click to expand the **Support** tab for that model.

Note: Firmware update files are contained within a .zip file using the following naming convention.

- DMA101 HOST Firmware v324.zip
- DMA101 HOST Firmware v324.zip
- DMA401 HOST Firmware v324.zip

- D. Copy the relevant file(s) to the USB drive.

Note: It is acceptable for all .BL2 files to be stored on the same USB drive. The DMA amplifier will select the correct version.

DMA Series

DIGITAL MIXER-AMPLIFIERS

DMA101 / DMA201/ DMA401



FIRMWARE UPDATE GUIDE

STEP 4 - EXTRACT THE DMA FIRMWARE FILES

Unzip the file contents to a root directory (top-level directory) on the USB drive as shown below.

Note: There will be two files for each model. Valid unzipped firmware files follow the naming convention below.

- DMA101.BL2
- DMA101IP.BL2

A. Click to open the sub folder.

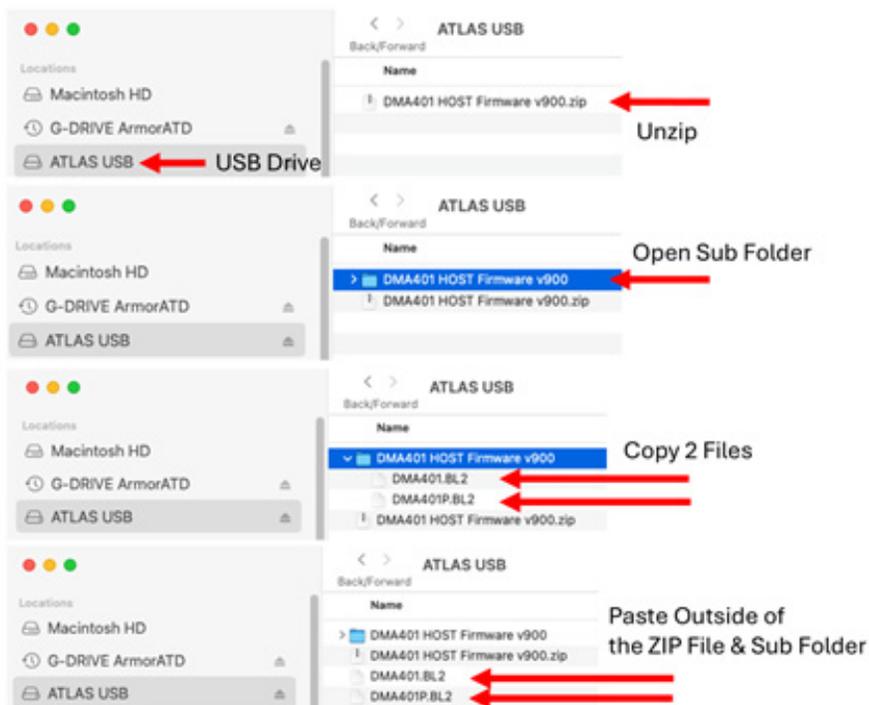
B. Copy both files.

C. Paste the copied files outside the .zip folder and sub folder.

Note: The DMA amplifier will not recognize the firmware files unless they are extracted from the sub folder.

D. Verify that the firmware version copied to the USB drive matches the DMA model being updated. For example, if a DMA101 amplifier is the target for the firmware update, DMA101.BL2 and DMA101IP.BL2 files should be on the USB drive.

E. Close and properly eject the USB drive from the computer.



DMA Series

DIGITAL MIXER-AMPLIFIERS

DMA101 / DMA201/ DMA401



FIRMWARE UPDATE GUIDE

STEP 5 - UPDATE THE DMA HOST HARDWARE FIRMWARE

To update firmware to the amplifier, follow the steps below.

Note: When updating firmware, the DMA amplifier retains all of the settings previously made.

Note: If you already have a design completed, it is always recommended to save the project file to your phone prior to updating firmware as a backup.

A. Power down the unit by removing the AC mains cord. Wait for 1 minute even if the DMA front panel LCD display and LED are no longer illuminated.

Note: The power supply needs to be fully discharged before the files will upload from the USB drive.

B. Insert the USB drive into the amplifier's Maintenance port located on the rear panel.

C. Power up the amplifier by connecting the AC mains power cord to the amplifier.

Note: The firmware update will start automatically. Its progress can be observed as shown in Figure A below.

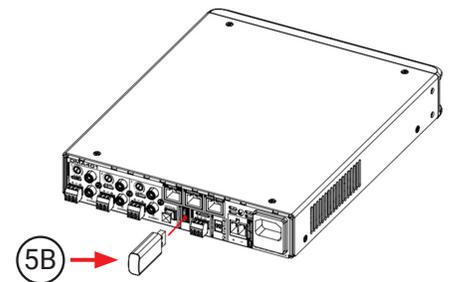


Figure A: Firmware update status shown in front panel LED and display.



The front panel will appear unresponsive for 30–45 seconds.

After 30–45 seconds, the display and the yellow LED illuminate.

After a few more seconds, the firmware version appears in the display.

When this message appears in the display, the update is complete and the firmware is ready for use.

DMA Series

DIGITAL MIXER-AMPLIFIERS

DMA101 / DMA201/ DMA401



FIRMWARE UPDATE GUIDE

STEP 6 - UPDATE THE DSP/UI FIRMWARE VIA THE CLOUD

Identifying Firmware Loaded On The DMA Amplifier

The DSP/UI firmware revision loaded onto the DMA amplifier can be identified two ways.

Front Panel Display Method

When powering up the DMA amplifier, the front panel display will briefly show the firmware revision number. The DSP/UI Firmware is to the left of the ampersand (&).



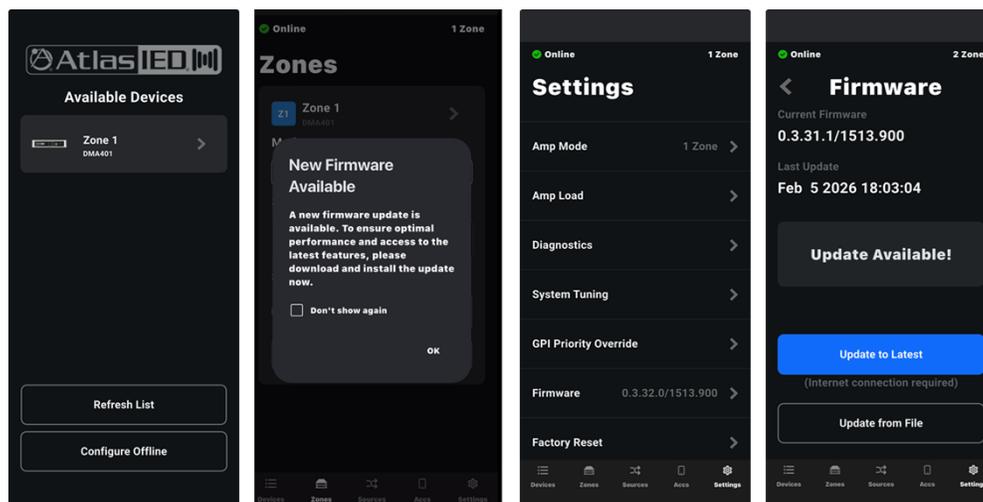
DSP / UI Cloud
Firmware Revision

DMA Control App Method

The fastest way to locate the DMA firmware is by pairing the DMA Control App with the DMA amplifier.

- Log in to the DMA Control App and connect to the DMA amplifier.
- Navigate to the **Settings** page on the app.
- Scroll to **Firmware**. The currently installed version of each type of firmware displays.
- The blue **Update to Latest** button will be illuminated if an updated version of the firmware is found. Tap this button to begin the update.

Refer to the illustration below.



DMA Series

DIGITAL MIXER-AMPLIFIERS

DMA101 / DMA201/ DMA401

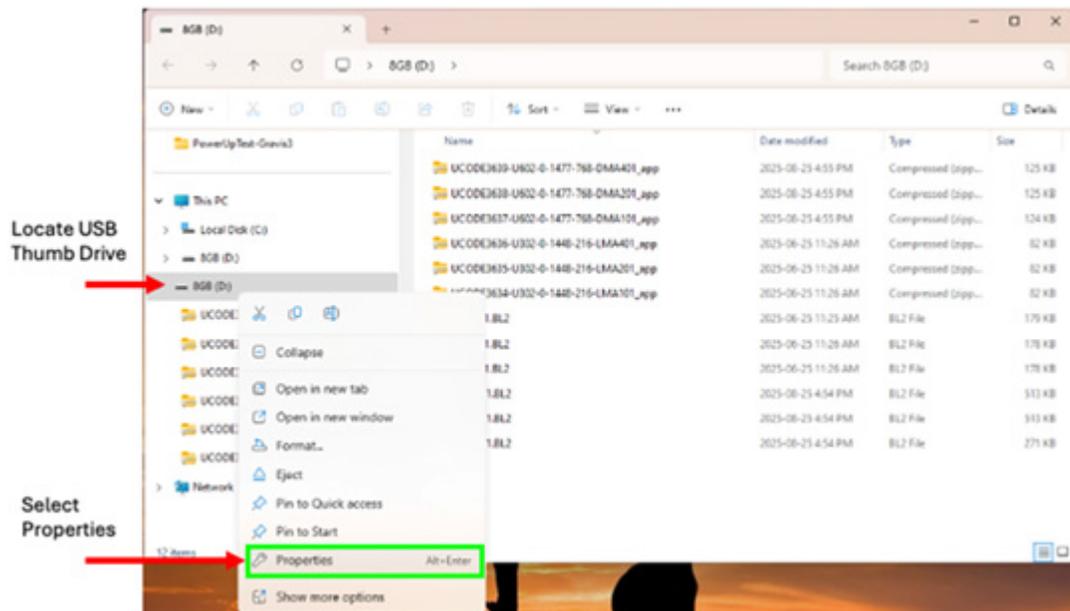


FIRMWARE UPDATE GUIDE

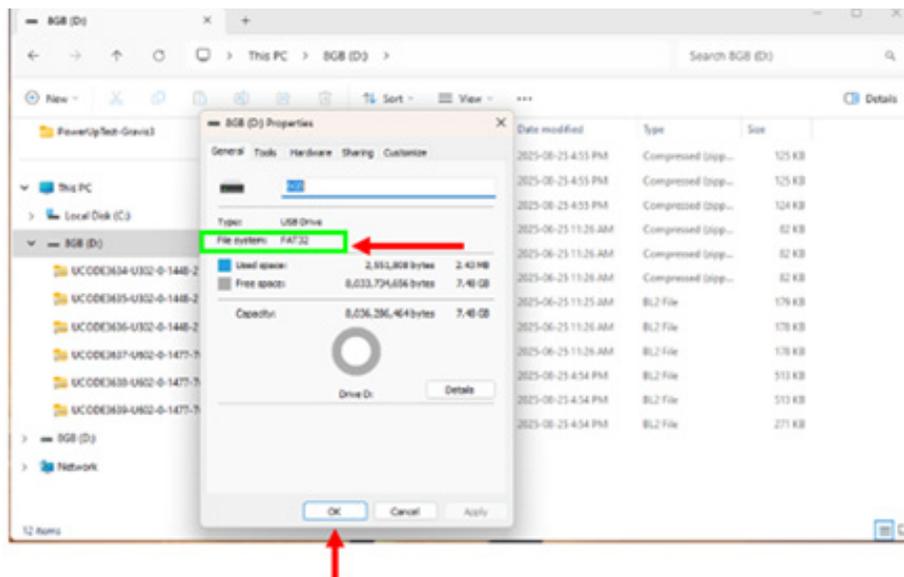
STEP 7 - VERIFY USB DRIVE PROPERTIES

To verify that a USB drive is formatted for FAT32 file system, do the following.

- A. Insert the USB drive into a USB-A port on a PC and open the file viewer.
- B. Right-click the USB drive in the file viewer and select **Properties** as shown below.



C. Verify the file system is FAT32. If it is not, follow the instructions in **Step 8**. **Note:** All contents on the drive will be lost after reformatting.



DMA Series

DIGITAL MIXER-AMPLIFIERS

DMA101 / DMA201/ DMA401

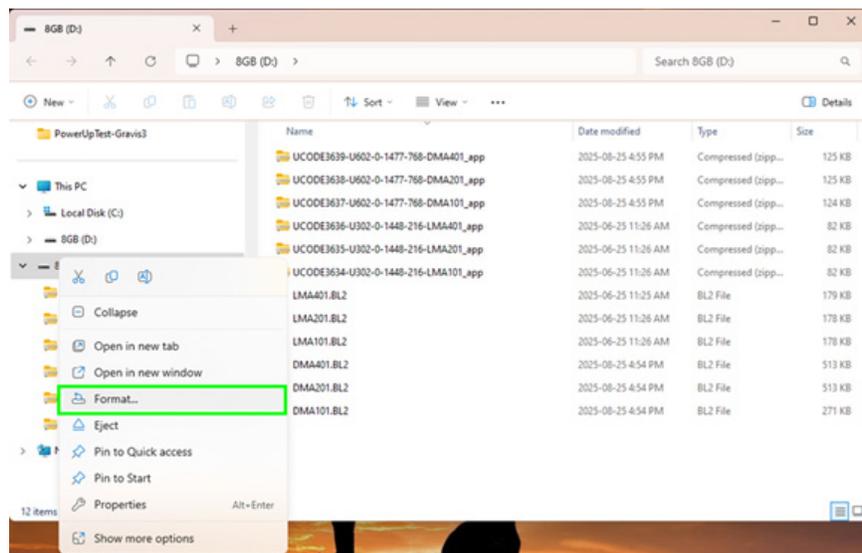


FIRMWARE UPDATE GUIDE

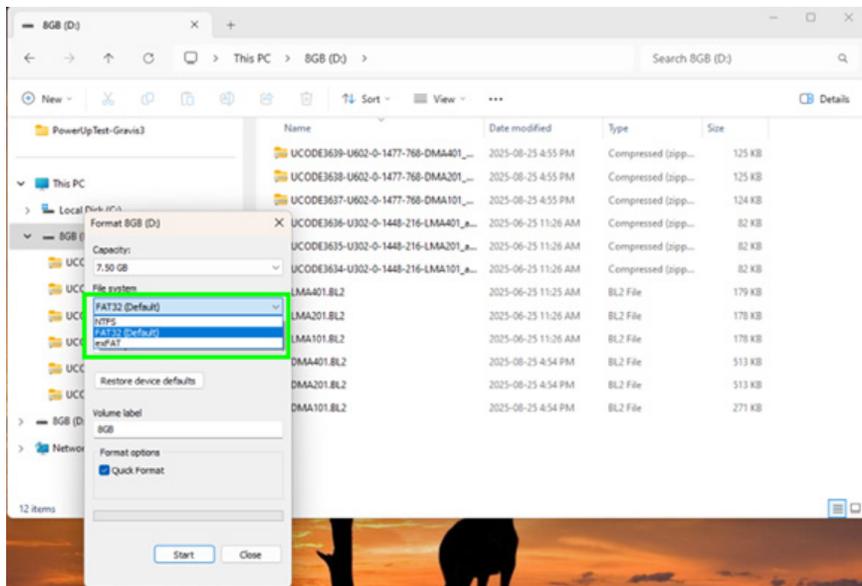
STEP 8 - Reformat USB Drive to FAT32 (If Needed)

This step contains instructions for reformatting a USB drive to the FAT32 file system. **Note:** All contents on the drive will be lost after reformatting.

- A. Insert the USB drive into a USB port on a PC and open the file viewer.
- B. Right-click the USB drive in the navigation pane and select **Format** as shown below.



- C. Select **FAT32** from the drop-down list.



- D. Click **Start**.