

DHY-04V Firmware Update Procedure

This procedure explains how to update both the **VoLTE (GSM) Module firmware** and the **Main Firmware** on the DHY-04V.

It is essential that the firmware is loaded **in the correct order**:

1. **Step 1 – GSM Module firmware**
2. **Step 2 – Main Firmware**

The firmware download package contains two folders labelled “**1) GSM Module (Step 1)**” and “**2) Main Firmware (Step 2)**”, which correspond to the sequence described below.

If needed, refer to the DHY-04V Handbook for information on connecting to the unit.

Before You Begin

- Ensure the DHY-04V remains powered throughout the update process.
 - Do **not** interrupt power while either firmware update is in progress.
 - Have the two firmware files ready and unzipped from the supplied firmware package.
-

1. Updating the GSM Module Firmware (Step 1)

1. Open the DHY-04V’s webpage interface and navigate to the **Updates** tab.
2. Under **Update the GSM module**, click **Choose File**.
3. Select the firmware file located in the folder “**1) GSM Module (Step 1)**”.
4. Click **Update Module**.

Manufacturers of audio & video equipment for radio & TV studios

[Home](#) | [Config](#) | [Network](#) | [Device Info](#) | [Updates](#)

Update Firmware

Please visit our [software downloads](#) page for firmware updates.

No file chosen

Step 1

Update GSM Module

No file chosen

Update Config Files

No file chosen

Clear Settings

Update Firmware

The version of firmware currently running on this unit is v1.22.163.169.

To find out if there is new firmware for this unit, check the Sonifex website. If an update is available, download the latest version and save the file to your computer (or browser device). Browse your computer to locate and select the file, and press the update button. Once the update has started the front panel LEDs will flash alternate rows, and when complete this webpage will refresh automatically to the Home Page.

The file must be named according to the following convention "DHY04G_HD" followed by any version or other info then a ".DWN" suffix - e.g "Dhy04G_HD v2_07 special release.dwn"

Update GSM Module

The GSM Module runs firmware to control the calls and report the status to the hybrid. If an update is available, download the latest version and save the file to your computer. Browse your computer to locate and select the file, and press the update button. Once the update has started the front panel LEDs will alternate with a 3,3,2 pattern, and when complete this webpage will refresh automatically to the Home Page.

The file must be named according to the following convention "DHY04G_HD_MOD" followed by any version or other info then a ".hex" suffix - e.g "Dhy04G_HD_Module v1.2.hex"

Update Config Files

The settings created in the Configuration page can be retrieved from or saved to your computer. To Load a Config Set select a file and press Load Config and the options from the config file will be loaded onto the DHY-04V unit. Just press Save Config to create a file named DHY04G_HD.ini in the download directory of the browser. Then you can select the downloaded file to edit it, rename it or move it to a different location directly on your computer.

Clear Settings

Press this button to clear the settings in the main code. Take care as all settings will be lost - if necessary use the config save to keep a record of settings

What to Expect

- The front-panel LEDs will begin **pulsing**, indicating that the module firmware is being written to internal memory.
- This process takes a few minutes.
- The webpage will time out while the update completes.

When Finished

- Refresh the webpage and return to the **Updates** tab ready for Step 2.

2. Updating the Main Firmware (Step 2)

1. Under **Update Firmware**, click **Choose File**.
2. Select the firmware file from the folder “**2) Main Firmware (Step 2)**”.
3. Click **Update Code**.

The screenshot shows the DHY-04V Web Server interface. At the top, there is a header with 'DHY-04 Telephone Hybrid', 'SONIFEX Manufacturers of audio & video equipment for radio & TV studios', and 'DHY-04V Web Server'. Below the header is a navigation bar with links: Home, Config, Network, Device Info, and Updates. The main content area is divided into two columns. The left column contains four sections: 'Update Firmware' (highlighted with a green box), 'Update GSM Module', 'Update Config Files', and 'Clear Settings'. Each section has buttons for 'Update Code', 'Choose file', and 'No file chosen'. The right column contains detailed instructions for each section, including the current firmware version (v1.22.163.169) and the required file naming conventions.

Step 2
Update Firmware

Please visit our [software downloads](#) page for firmware updates.

No file chosen

Update GSM Module

No file chosen

Update Config Files

No file chosen

Clear Settings

Update Firmware

The version of firmware currently running on this unit is v1.22.163.169.

To find out if there is new firmware for this unit, check the Sonifex website. If an update is available, download the latest version and save the file to your computer (or browser device). Browse your computer to locate and select the file, and press the update button. Once the update has started the front panel LEDs will flash alternate rows, and when complete this webpage will refresh automatically to the Home Page.

The file must be named according to the following convention "DHY04G_HD" followed by any version or other info then a ".DWN" suffix - e.g "Dhy04G_HD v2_07 special release.dwn"

Update GSM Module

The GSM Module runs firmware to control the calls and report the status to the hybrid. If an update is available, download the latest version and save the file to your computer. Browse your computer to locate and select the file, and press the update button. Once the update has started the front panel LEDs will alternate with a 3,3,2 pattern, and when complete this webpage will refresh automatically to the Home Page.

The file must be named according to the following convention "DHY04G_HD_MOD" followed by any version or other info then a ".hex" suffix - e.g "Dhy04G_HD_Module v1.2.hex"

Update Config Files

The settings created in the Configuration page can be retrieved from or saved to your computer. To Load a Config Set select a file and press Load Config and the options from the config file will be loaded onto the DHY-04V unit. Just press Save Config to create a file named DHY04G_HD.ini in the download directory of the browser. Then you can select the downloaded file to edit it, rename it or move it to a different location directly on your computer.

Clear Settings

Press this button to clear the settings in the main code. Take care as all settings will be lost - if necessary use the config save to keep a record of settings

What to Expect

- The front-panel LEDs will show a **different sequence** this time, indicating the main firmware is being programmed. The DHY-04V will automatically **reboot** when complete.

Update Complete.

- After rebooting, refresh the webpage to return to normal operation and confirm the firmware versions. The DHY-04V is now running the latest firmware.