SIEMENS

SIMATIC

S7-1200

S7-1200 SM 1232 4 x Analog Output firmware update V2.0.3

Product Information

Description

This firmware update corrects an issue regarding channels 2 and 3. The error LED and DIAG LED for each of these channels continue to flash even after the channel error has been cleared. You can clear the error LED and DIAG LED by power-cycling the module. The analog output function itself is unaffected and continues to perform properly.

Channels 0 and 1 display and clear the channel error LED correctly.

Module	Order number
S7-1200 SM 1232 4 x Analog Output	6ES7 232-4HD32-0XB0

Required user action

NOTICE
Do not use the Windows formatter utility or any other formatting utility to reformat the memory card.
If a Siemens memory card is reformatted using the Microsoft Windows formatter utility, then the memory card will no longer be usable by a S7-1200 CPU.

To download the firmware update to your memory card, follow these steps:

1. Insert a blank SIMATIC memory card that is not write-protected into an SD card reader/writer attached to your computer. (If the card is write-protected, slide the protection switch away from the "Lock" position.)

    You can reuse a SIMATIC memory card that contains a user program or another firmware update, but you must delete some of the files on the memory card.

    To reuse a memory card, you **must** delete the "S7_JOB.S7S" file and any existing "Data Logs" folders or any folder (such as "SIMATIC.S7S" or "FWUPDATE.S7S") before downloading the firmware update. Use Windows Explorer to display the contents of the memory card and to delete the file and folders.

NOTICE
Do NOT delete the hidden files "__LOG__" and "crdinfo.bin" from the memory card.
The "__LOG__" and "crdinfo.bin" files are required for the memory card. If you delete these files, you cannot use the memory card with the CPU.

2. Select the self-extracting file (.exe) for the firmware update that corresponds to your module, and download it to your computer. Double-click the update file, set the file destination path to be the root directory of the SIMATIC memory card, and start the extraction process. After the extraction is complete, the root directory (folder) of the memory card will contain a "FWUPDATE.S7S" directory and the "S7_JOB.S7S" file.

3. Safely eject the card from the card reader/writer.

To install the firmware update, follow these steps:

⚠ WARNING
Verify that the CPU is not actively running a process before installing the firmware update.
Installing the firmware update will cause the CPU to go to STOP mode, which could affect the operation of an online process or machine. Unexpected operation of a process or machine could result in death or injury to personnel and/or property damage.
Before inserting the memory card, always ensure that the CPU is offline and in a safe state.

1. Insert the memory card into the CPU. If the CPU is in RUN mode, the CPU then goes to STOP mode. The maintenance (MAINT) LED flashes to indicate that the memory card needs to be evaluated.

2. Power-cycle the CPU to start the firmware update. Alternative methods for rebooting the CPU are to perform either a STOP-to-RUN transition or a memory reset (MRES) from STEP 7.

    Note

    To complete the firmware upgrade for the module, you must ensure that the external 24 VDC power to the module remains on.

    After the CPU reboots, the firmware update starts. The RUN/STOP LED alternately flashes green and yellow to indicate that the update is being copied. When the RUN/STOP LED turns on (solid yellow) and the MAINT LED flashes, the copy process has finished. You must then remove the memory card.

3. After removing the memory card, reboot the CPU again (either by restoring power or by the alternative methods for rebooting) to load the new firmware.

The user program and hardware configuration are not affected by the firmware update. When the CPU is powered up, the CPU enters the configured start-up state. (If the startup mode for your CPU was configured to "Warm restart - mode before POWER OFF", the CPU will be in STOP mode because the last state of the CPU was STOP.)

Note

Updating multiple modules connected to CPU

If your hardware configuration contains multiple modules that correspond to a single firmware update file on the memory card, the CPU applies the updates to all applicable modules (CM, SM, SB) in configuration order, that is, by increasing order of the module position in Device Configuration in STEP 7.

If you have downloaded multiple firmware updates to the memory card for multiple modules, the CPU applies the updates in the order in which you downloaded them to the memory card.