

MSP430FR5969 Launchpad Firmware Flashing Guide for ADS1282-SP

This user's guide provides step-by-step instructions to load or update the MSP430™ firmware:

1. Ensure that the ADS1282-SP GUI has been installed on the PC as this process provides the flasher tool, the firmware file, and a batch file.
2. Ensure that the MSP430 LaunchPad™ is connected to the PC with a USB cable.
3. Ensure the ADS1282-SP EVM is **not** connected.
4. Ensure that the ADS1282-SP GUI is not running.
5. Navigate to the firmware updater directory in the installation path for the ADS1282-SP GUI (see [Figure 1](#)). The default location is:

C:\Program Files (x86)\Texas Instruments\ADS1282-SP\Apps\ads1282\Firmware Updater

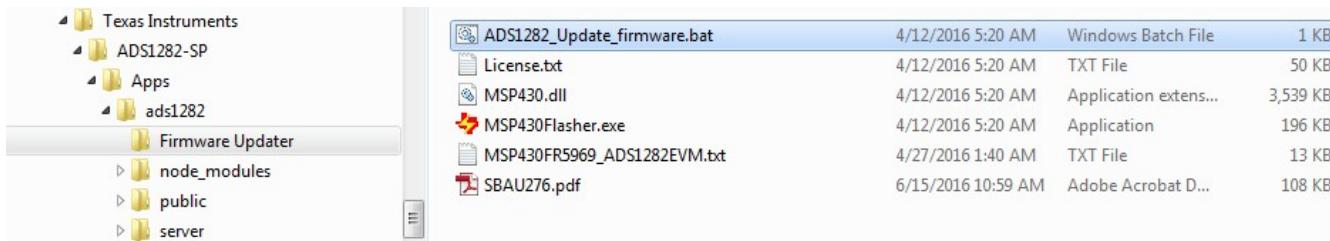


Figure 1. Firmware Updater Directory

This directory contains a version of MSP430Flasher, and firmware version v1.0.3.0.

[**NOTE:** If desired, obtain the current or updated firmware source files from the product tools and software folder <http://www.ti.com/product/ADS1282-SP/toolssoftware> or directly downloaded from following link:*MSP430FR5969 LaunchPad Firmware Source for ADS1282-SP (SBAC149)*].

6. Execute the batch file ADS1282_Update_firmware.bat by double clicking it in Windows® Explorer, or right-click to open. This launches a command shell and begins programming.
7. Press **N** if prompted for firmware update.

8. See the success message as shown in [Figure 2](#).
Press any key to continue... Now the firmware is updated.

```
ADS1282_Update_firmware.bat
MSP-EXP430FR5969-LaunchPad Firmware Programmer
Programming MSP430FR5969_ADS1282EUM.txt into MSP430FR5969 .....
*-----!-----*
*-----!-----* MSP430 Flasher v1.3.0
*-----!-----*
*-----!-----*
* Evaluating triggers...done
* Checking for available FET debuggers:
* Found USB FET @ COM23.
* Initializing interface on TIUSB port...done
* Checking firmware compatibility:
* FET firmware is up to date.
* Reading FW version...done
* Reading HW version...done
* Setting UCC to 3000 mV...done
* Accessing device...done
* Reading device information...done
* Loading file into device...done
* Verifying transfer...done
*
*-----!
* Arguments : -n MSP430FR5969 -w MSP430FR5969_ADS1282EUM.txt -v -g -z [UCC]
* Warning: Default options used due to incomplete argument list.
*
* Driver      : loaded
* Dll Version : 30400020
* FuVersion   : 30400020
* Interface   : TIUSB
* HuVersion   : E 4.0
* Mode        : AUTO
* Device      : MSP430FR5969
* EEM         : Level 5, ClockCtrl 2
* Prog_File   : MSP430FR5969_ADS1282EUM.txt <ERASE_ALL, verified = TRUE>
* BSL Unlock  : FALSE
* InfoA Access: FALSE
* UCC ON      : 3000 mV
*
* Starting target code execution...done
* Disconnecting from device...done
*
*-----!
* Driver      : closed <No error>
*-----!
*/
Press any key to continue . . .
```

Figure 2. Successful Firmware Installation Message

Before launching the ADS1282-SP GUI and connecting the ADS1282 EVM to the LaunchPad, disconnect the USB from the LaunchPad and reconnect. This will re-enumerate the USB and execute the newly updated firmware.

Updated versions of MSP430Flasher are available at the following link:

http://software-dl.ti.com/msp430/msp430_public_sw/mcu/msp430/MSP430Flasher/latest/index_FDS.html

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