

Firmware Update User Guide

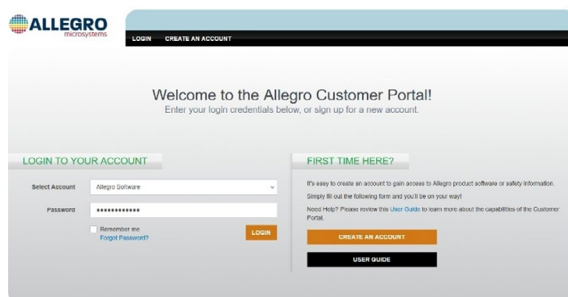
DESCRIPTION

Allegro provides specialized tools to support the evaluation and configuration of its sensor products. The ASEK-35 programmer incorporates an onboard microcontroller running embedded firmware. This document outlines a step-by-step procedure for updating the firmware on the ASEK-35 programmer.

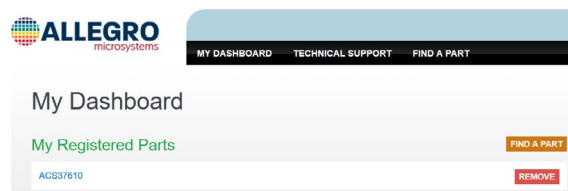
FIRMWARE UPDATE

1. Download the firmware file:

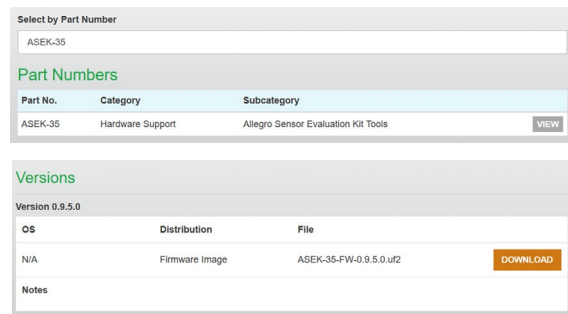
- A. Log in to the Allegro Software Portal at:
<https://registration.allegromicro.com/login>
Registration is required.



- B. Click the Find a Part button



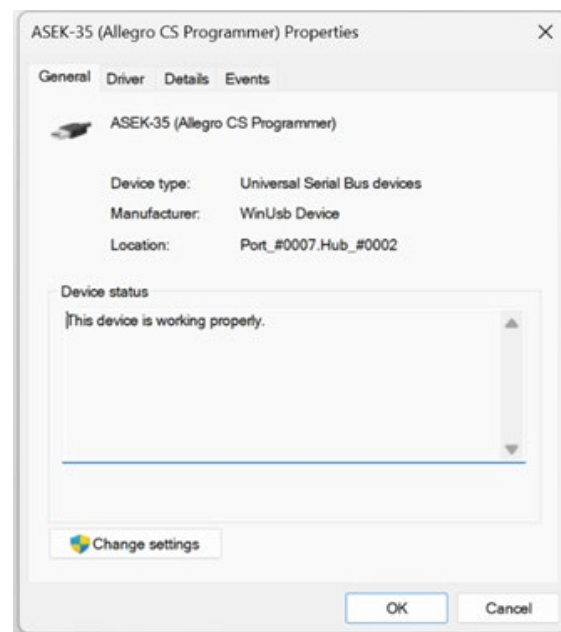
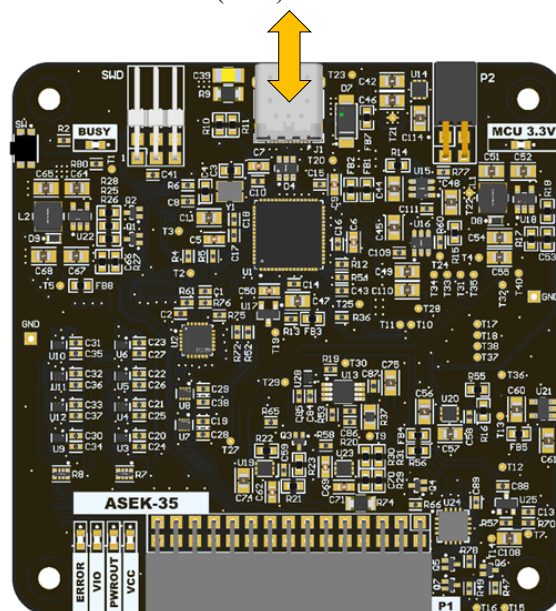
- C. In the Select by Part Number search field, type "ASEK-35", then click the View button and download the latest firmware image to the user PC.



2. Connect ASEK-35 to PC

- A. Attach the USB-C communications cable to the J1 port of the ASEK-35 and to the control PC.

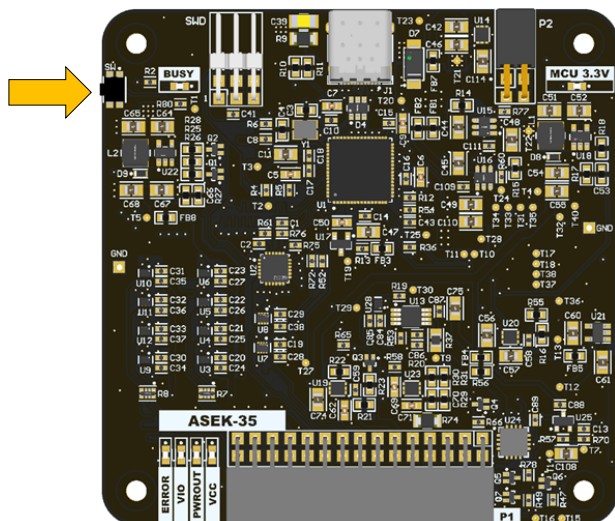
The green LED indicators MCU_3.3V and VIO illuminate to indicate the ASEK-35 is in the power-on state. The programmer operates as a standard universal serial bus (USB) device.



3. Initiate the bootloader:

CAUTION: This procedure uses a double-click of the SW button. Do not single-click the SW button. A single click of the SW button resets the programmer to its default state.

- A. Double-click the SW button located on the upper-left side of the ASEK-35 evaluation board. The yellow BUSY LED illuminates, indicating that the programmer is in bootloader mode. In this mode, the USB interface enumerates as a standard disk-drive device.



4. Copy the firmware to the ASEK-35:

- A. Open Windows File Explorer and locate the ASEK-35 FW drive.



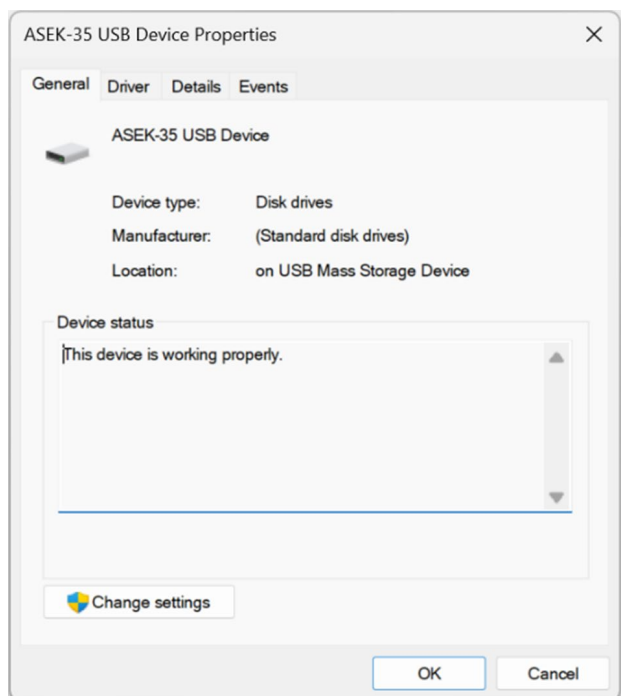
- B. Copy the downloaded U2F firmware file to the root directory of the ASEK-35 FW drive:

Once the correct file is detected, the microcontroller automatically begins the flashing process.

After programming is complete, the ASEK-35 reboots and loads the new firmware.

IMPORTANT: If the user environment is subject to strict security policies that block all USB mass storage devices, the firmware update cannot be performed because the necessary drive is not accessible. In such a case, an authorized user (e.g., the IT department) may be able to grant an exception based on the USB identifiers of the ASEK-35, whereby disk-drive enumeration is allowed for only this device:

- USB_VendorID = 0x3218, USB_ProductID = 0x0E55



Revision History

Number	Date	Description
–	March 4, 2026	Initial release
1	August 11, 2026	Release to web

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