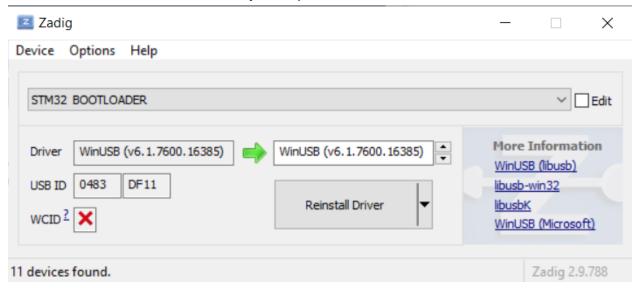
Installation of firmware version 0.6

- 1. Download **Zadig** from the official website: https://zadig.akeo.ie/.
- 2. Enter the Booster into DFU mode:

Insert a pin into the **DFU Bootloader**, power cycle the Booster, and wait a few seconds before removing the pin.

3. In Zadig choose **STM32 BOOTLOADER** and install WinUSB by clicking **Install Driver**. Points 1. and 3. should be done only once per PC.



- 4. Open PowerShell.
- 5. Navigate to the directory named dfu-util containing dfu-util.exe and booster-release.bin files. Booster firmware files are available here:

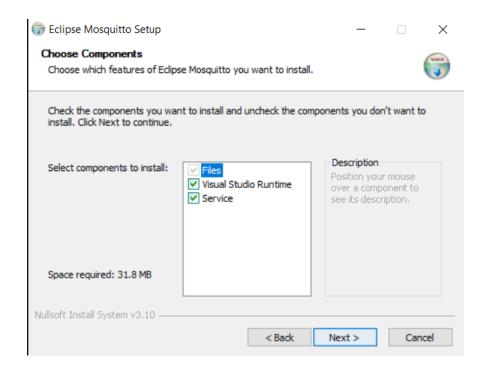
https://github.com/quartiq/booster/releases/tag/v0.6.0.

- 6. Upload new firmware using this command:
 - .\dfu-util.exe -a 0 -s 0x08000000:leave --download booster-release.bin
- 7. Wait until booster starts again.
- 8. After firmware installation on the first Booster, you can skip steps 1 and 3 on the same PC for any additional Boosters.

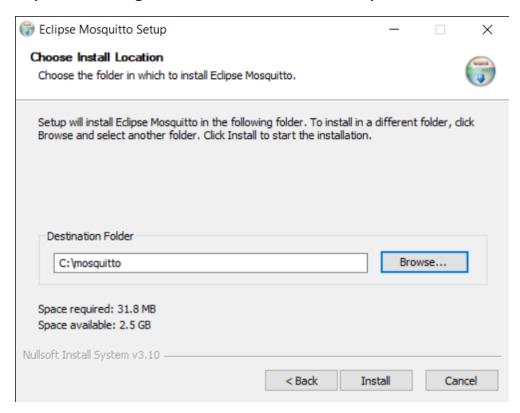
Booster connection setup with mosquitto

- 1. Download mosquitto from: https://mosquitto.org/download/.
- 2. Run downloaded .exe file to begin installation

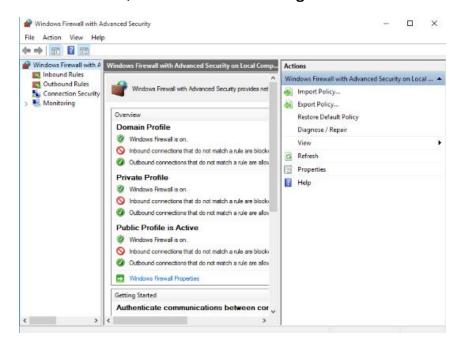




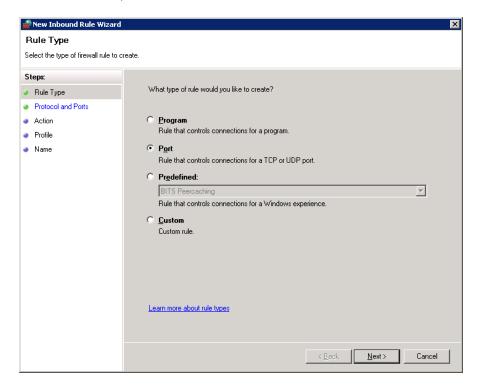
3. Important! Change destination folder to: "C:\moquitto"



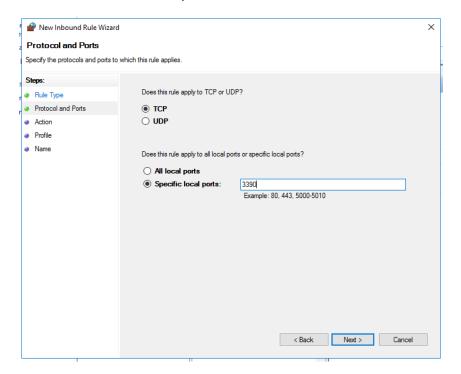
- 4. To allow Mosquitto to receive MQTT connections, you need to add an **inbound firewall rule**:
 - a. Open Windows Firewall with Advanced Security via the Start Menu
 - b. In the left menu, click "Advanced Settings".



- c. Go to "Inbound Rules" → click "New Rule..."
- d. Choose "Port", then click Next.



e. Select "TCP" and enter port number 1883, then click Next.



- f. Select "Allow the connection", then click Next.
- g. Choose "Domain" then click Next.
- h. Give rule a name e.g. "MQTT Mosquitto 1883" and click Finish.
- 5. Modify **mosquitto.conf** file that should be located in "C:\moquitto") by adding these 3 lines into it:

listener 1883 0.0.0.0

allow_anonymous true

connection_messages true

These settings allow mosquitto to accept MQTT connections from any IP address on port 1883 and enable basic connection logging.

6. Enter PowerShell and run:

cd C:\mosquitto

And then Start the broker with the configuration file in verbose mode:

.\mosquitto.exe -c "C:\mosquitto\mosquitto.conf" -v

This will start the **mosquitto broker** service. The broker will listen on port 1883, and its IP address will match the IP address of your PC.

7. Connect to mosquitto broker with **mqtt-explorer**.

