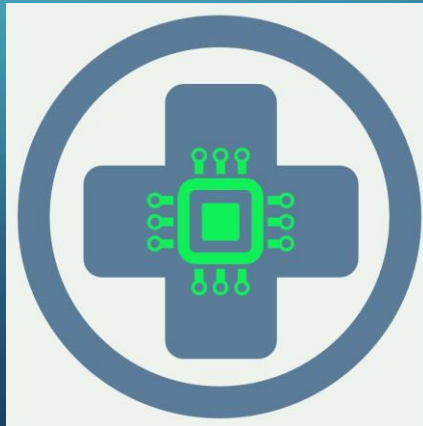


# INSPIRE-100

## How to Update Firmware STEP-BY-STEP PROCEDURE



***TekMedika***

# EQUIPMENT NEEDED

USB Cable



One end with micro-USB connector

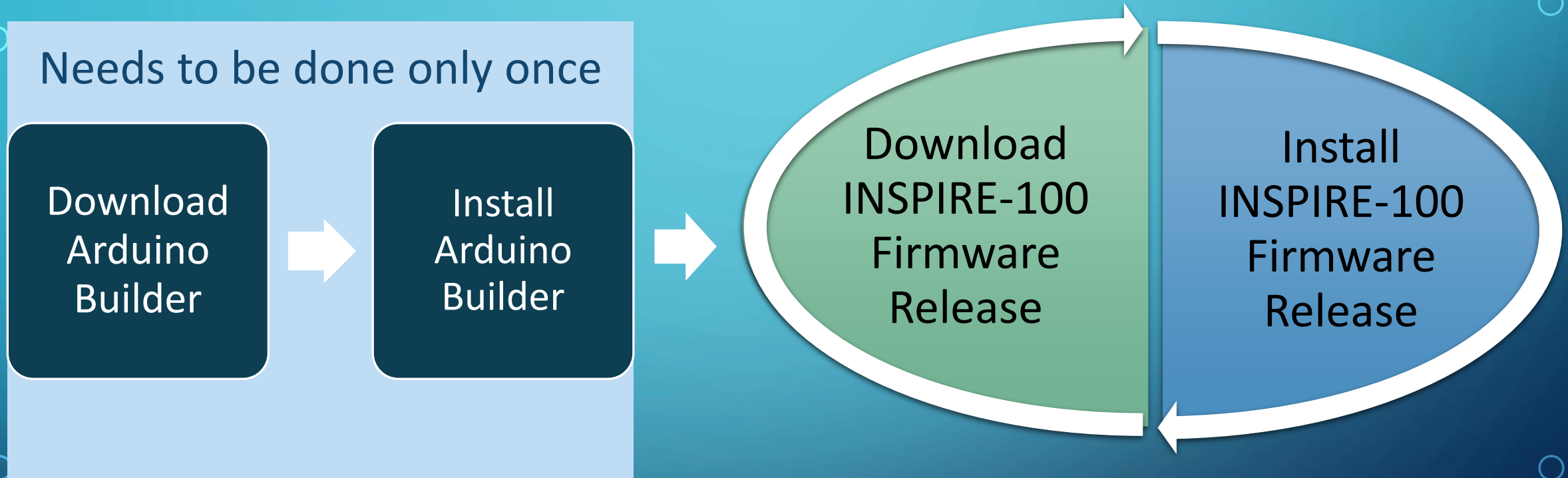
Windows Laptop



INSPIRE-100



# FIRMWARE UPDATE OVERVIEW



Each Firmware release has 2 files – one for each controller in the INSPIRE-100 system

INSPIRE-100\_master.ino.mega.hex

INSPIRE-100\_slave.ino.nodemcu.bin

A decorative graphic on the left side of the image, consisting of a series of vertical and diagonal lines of varying lengths, some ending in small circles, resembling a circuit board or a stylized tree structure.

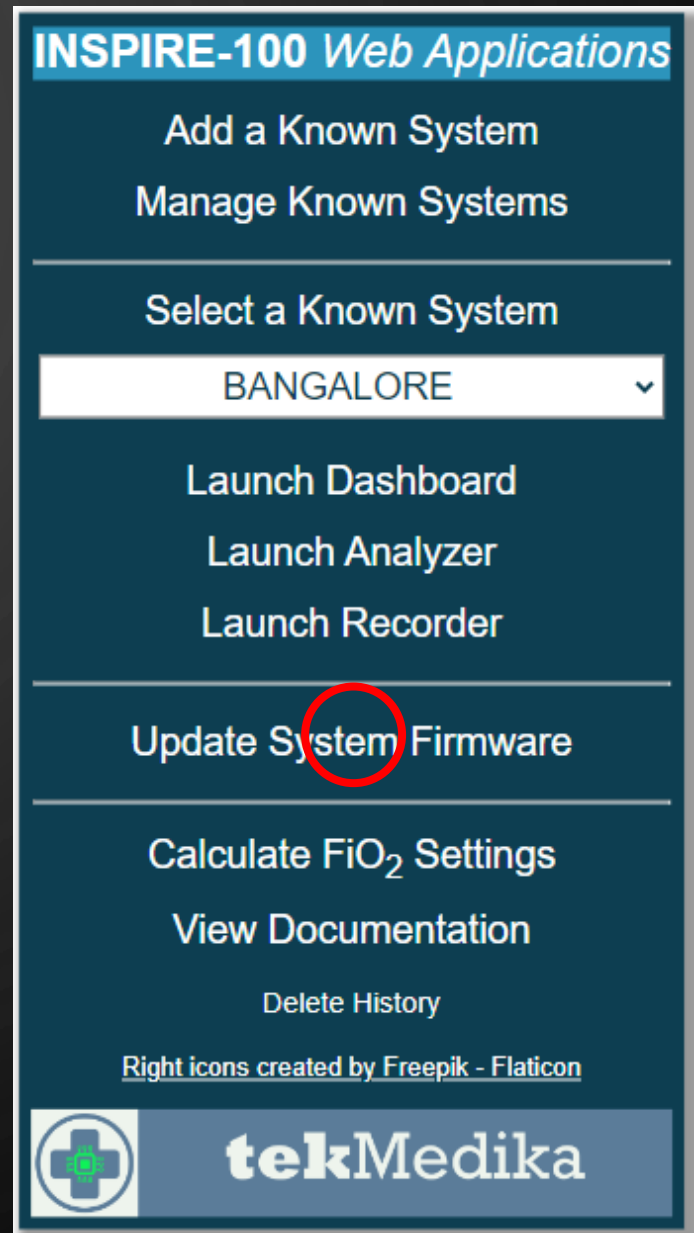
# DOWNLOAD ARDUINO BUILDER

# DOWNLOAD ARDUINO BUILDER

## STEP 1

Open URL in your browser  
<https://www.inspire-100.com>

Click on  
"Update System Firmware"



# DOWNLOAD ARDUINO BUILDER

## STEP 2




Click on  
Arduino Builder  
One-time Download


**INSPIRE-100 Firmware Update**

Step-by-step Instructions

Arduino Builder  
One-time Download

Select and Download Release

Version	Release Date	Get
3.1.1	13-Dec-2023	
1.1.1	16-Oct-2023	
1.0.1	16-May-2023	

 **tekMedika**



# DOWNLOAD ARDUINO BUILDER

## STEP 3

The .exe is downloaded to your Downloads folder

Depending upon your settings, a new tab may open in your browser. Delete that tab after download is complete

Read and Dismiss the information popup



A decorative graphic on the left side of the slide, consisting of a network of light blue lines and small circles, resembling a circuit board or a stylized tree structure, set against a blue gradient background.

# INSTALL ARDUINO BUILDER



# INSTALL ARDUINO BUILDER

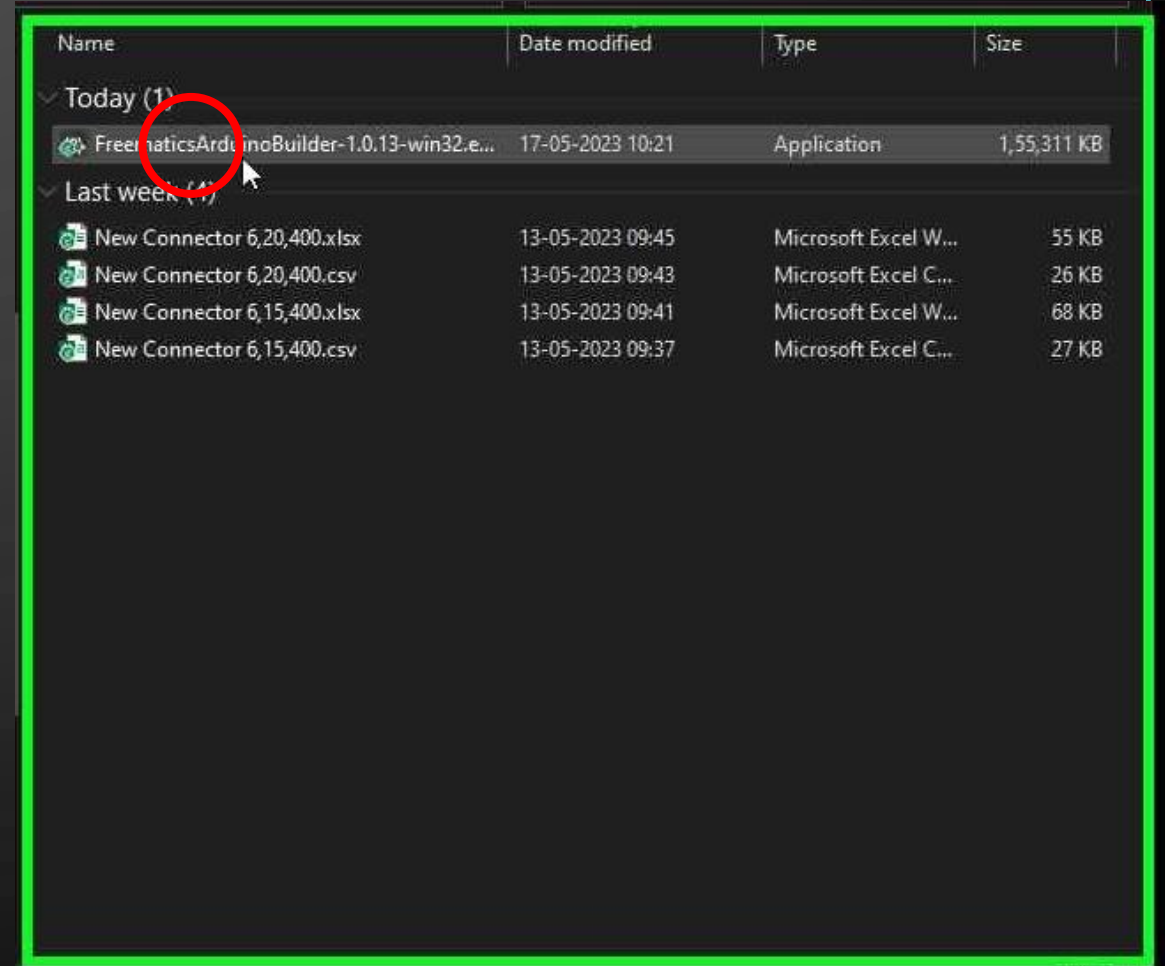
## STEP 1

Find the downloaded .exe file (in your Downloads folder)

Double Click on the .exe file to execute it

You will need admin privileges on your laptop to execute this file

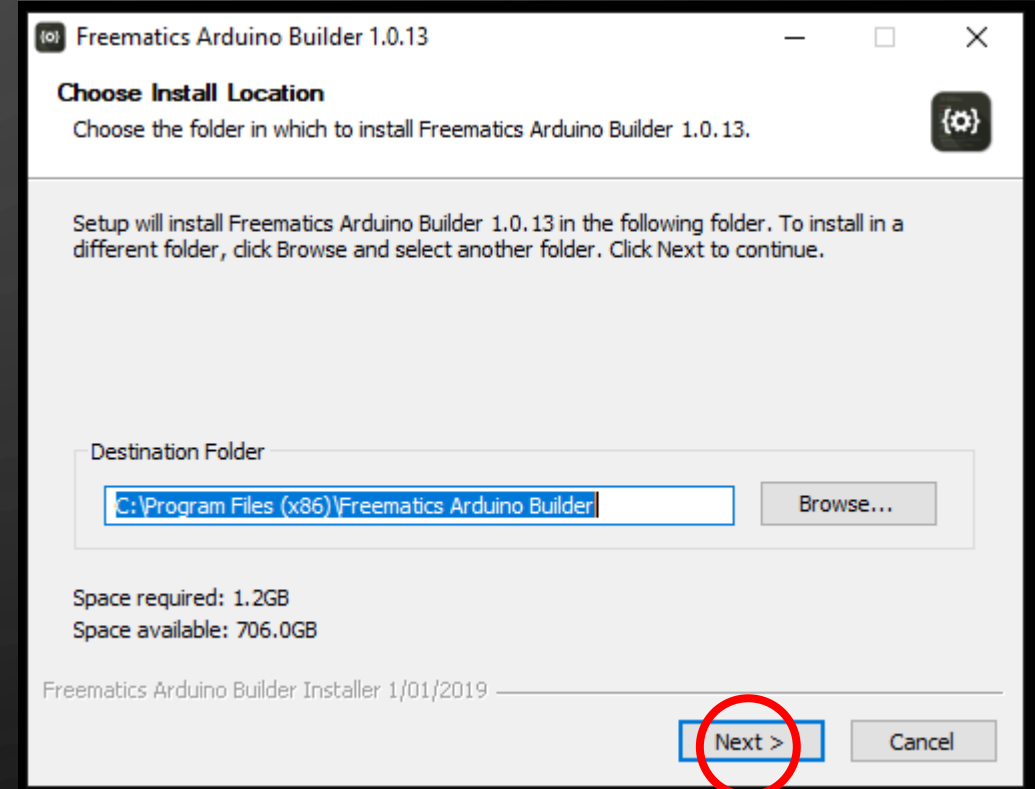
Your laptop's anti-virus software will sanitize the file automatically



# INSTALL ARDUINO BUILDER STEP 2

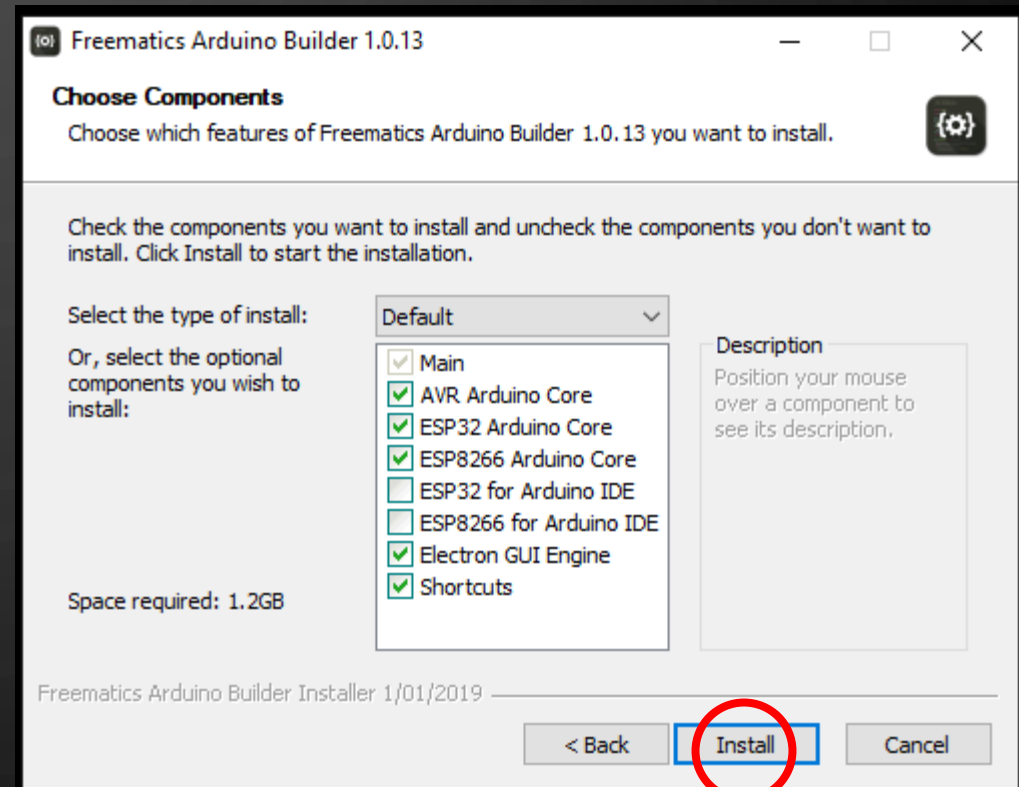
The Arduino Builder installer will  
guide you step-by-step

Click on “Next”



# INSTALL ARDUINO BUILDER STEP 3

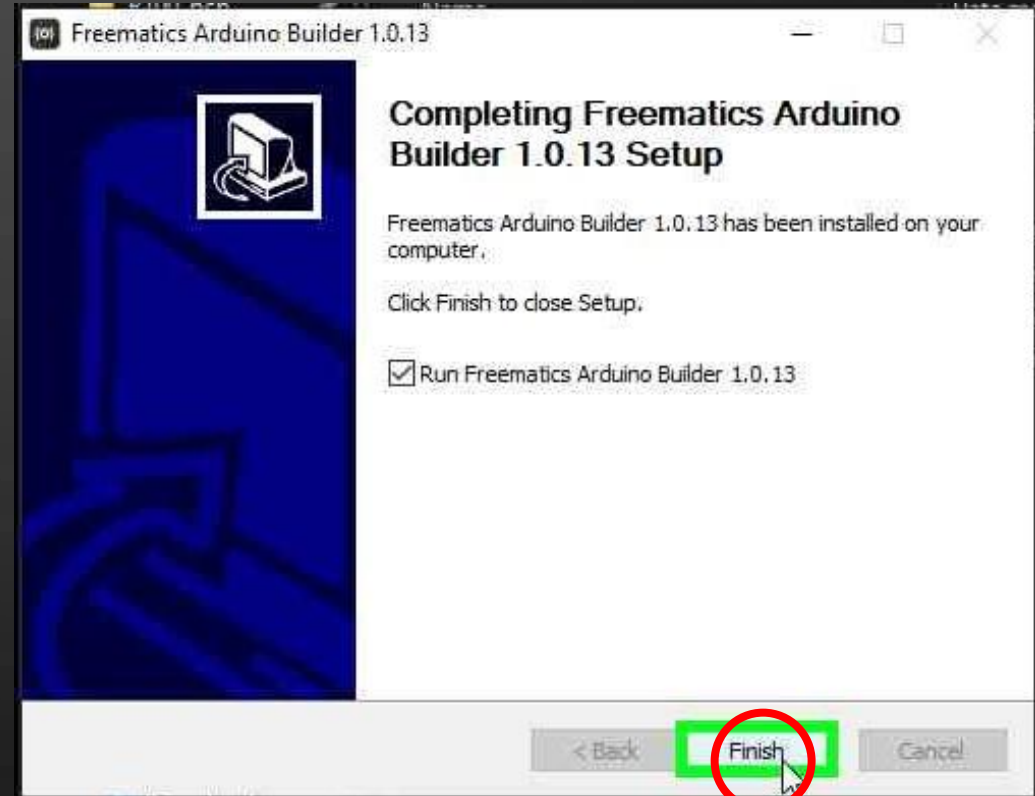
Click on “Install”



# INSTALL ARDUINO BUILDER

## STEP 4

Click on “Finish”



# INSTALL ARDUINO BUILDER

## STEP 5

Arduino Builder is installed!

You can now delete the .exe file in  
your Downloads folder



A decorative graphic on the left side of the slide, consisting of a network of white lines and small circles on a blue gradient background, resembling a circuit board or data flow diagram.

DOWNLOAD A FIRMWARE RELEASE

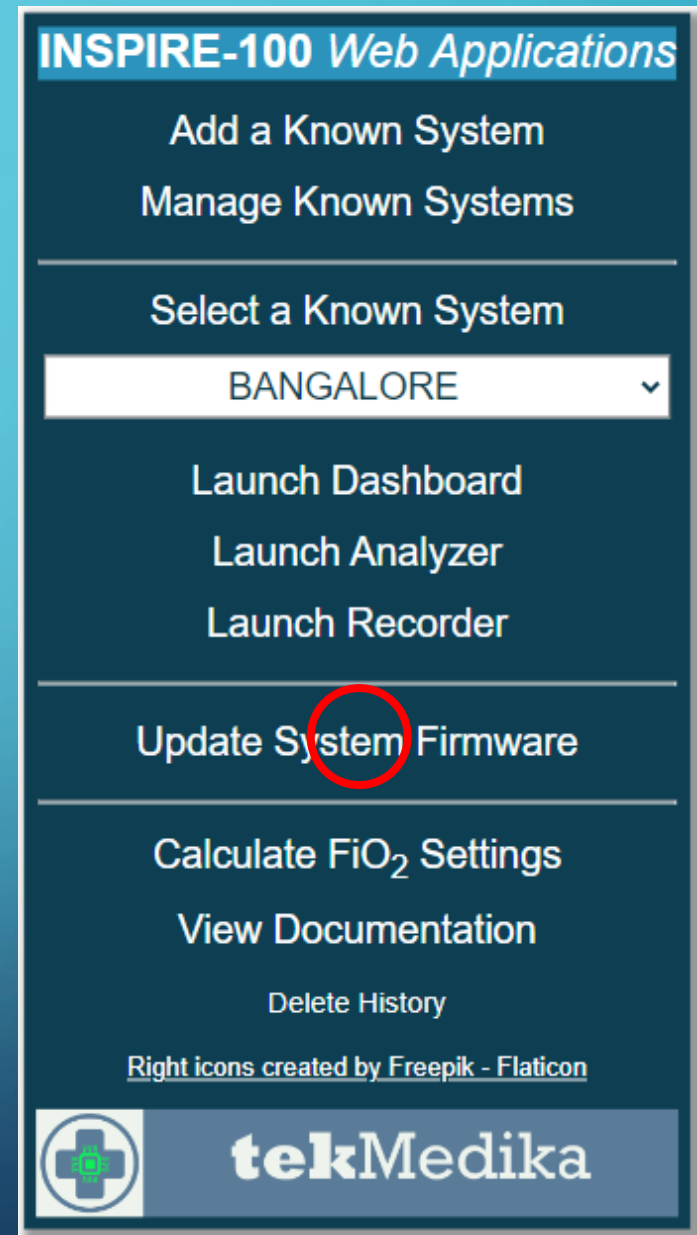


# DOWNLOAD FIRMWARE RELEASE

## STEP 1

Open URL in your browser  
<https://www.inspire-100.com>

Click on  
“Update System Firmware”



# DOWNLOAD FIRMWARE RELEASE

## STEP 2

Click on the download icon button next to the release you wish to download (1.0.1 in this example)

**INSPIRE-100 Firmware Update**

Step-by-step Instructions

Arduino Builder  
One-time Download

Select and Download Release

Version	Release Date	Get
3.1.1	13-Dec-2023	
1.1.1	16-Oct-2023	
1.0.1	16-May-2023	

 **tekMedika**



# DOWNLOAD FIRMWARE RELEASE

## STEP 3

A .zip is downloaded to your  
Downloads folder

Read and Dismiss the information  
popup



# DOWNLOAD FIRMWARE RELEASE

## STEP 4

Double click on the downloaded .zip file to open it

Click on the “Extract All” button

A folder with the same name as the release tag will be created

It should show two files within it

INSPIRE-100\_slave.ino.nodemcu.bin

INSPIRE-100\_master.ino.mega.hex

Release is now downloaded and ready to be uploaded to the INSPIRE-100 system

An abstract graphic on the left side of the slide, consisting of a network of light blue lines and small circles, resembling a circuit board or a data network, set against a dark blue gradient background.

# INSTALL FIRMWARE RELEASE

# INSTALL FIRMWARE RELEASE

## STEP 1

Search for “Arduino Builder”  
on the laptop

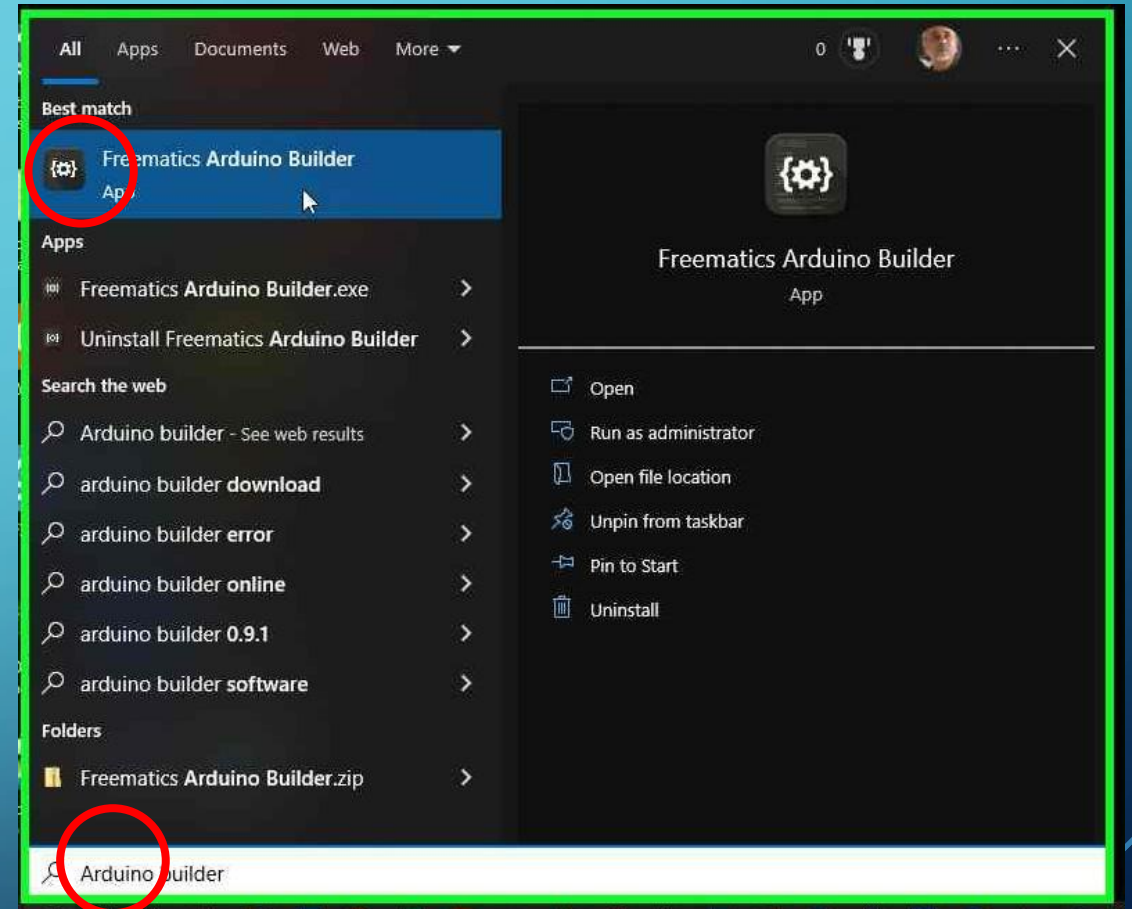




# INSTALL FIRMWARE RELEASE

## STEP 2

Click on  
“Freematics Arduino Builder”  
in the search window



# INSTALL FIRMWARE RELEASE

## STEP 3

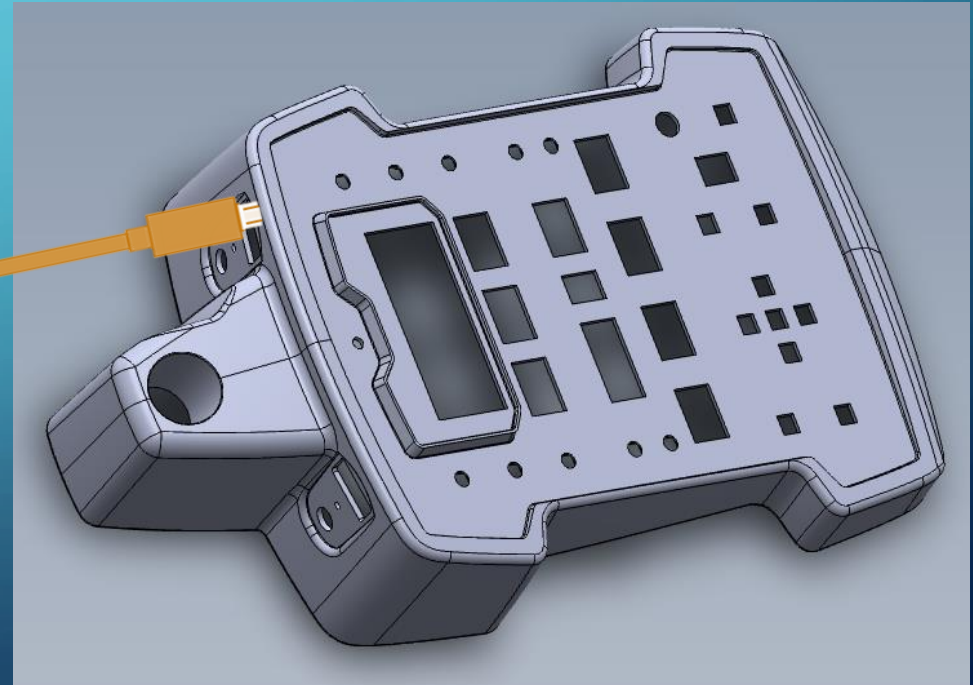
Arduino Builder app  
window will open



# INSTALL FIRMWARE RELEASE

## STEP 4

Connect laptop's USB port to the micro-USB port labelled "Controller" on the back of the control panel of the INSPIRE system



# INSTALL FIRMWARE RELEASE

## STEP 5

Select “Arduino Mega 2560/ADK”  
from the dropdown menu in the  
“Target” field

Check “Verify” box





# INSTALL FIRMWARE RELEASE

## STEP 6

Click “Load Sketch/Binary”  
button on the Arduino Builder

Select INSPIRE-  
100\_master.ino.mega.hex from  
the extracted release folder

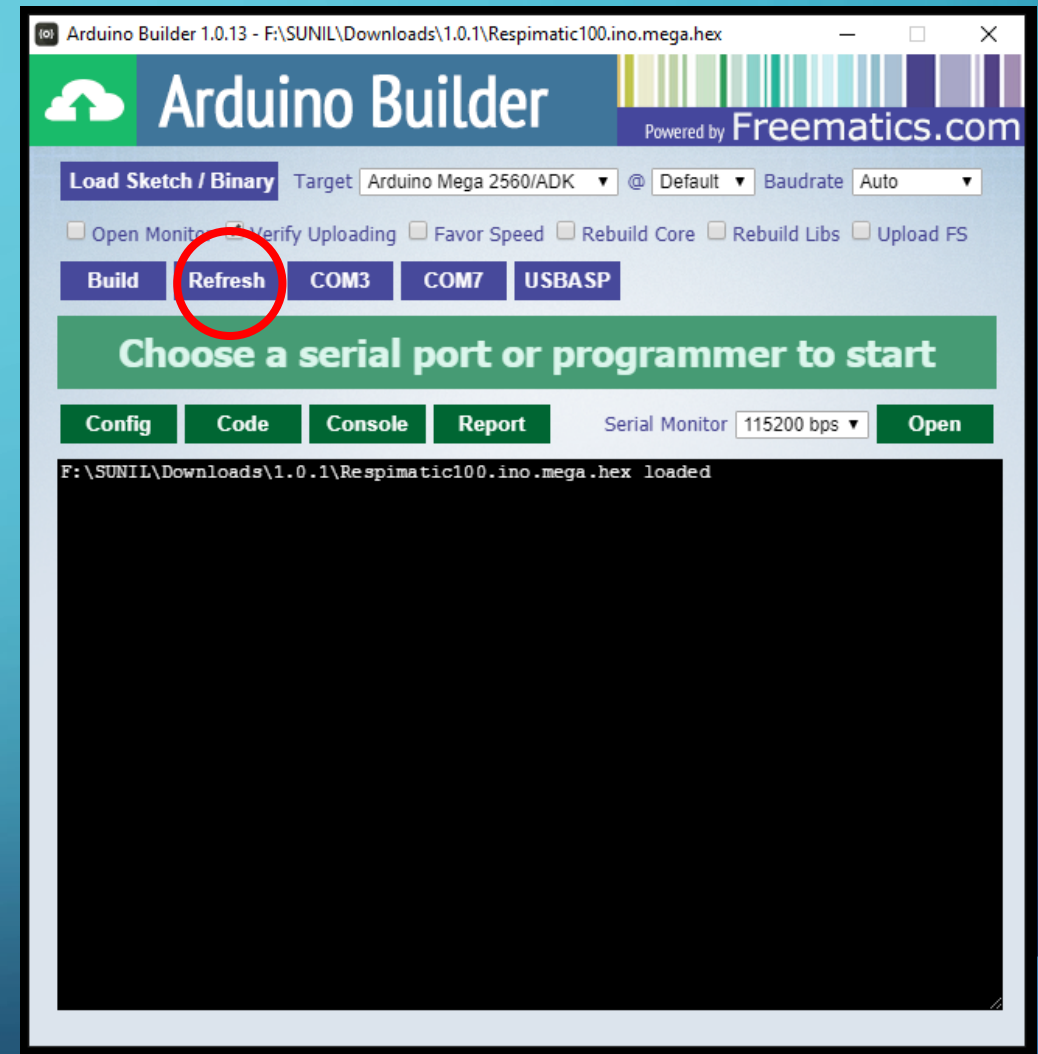


# INSTALL FIRMWARE RELEASE

## STEP 7

Check “Refresh” button on the  
Arduino Builder

It refreshes the list of COM ports  
that the INSPIRE system could be  
connected to





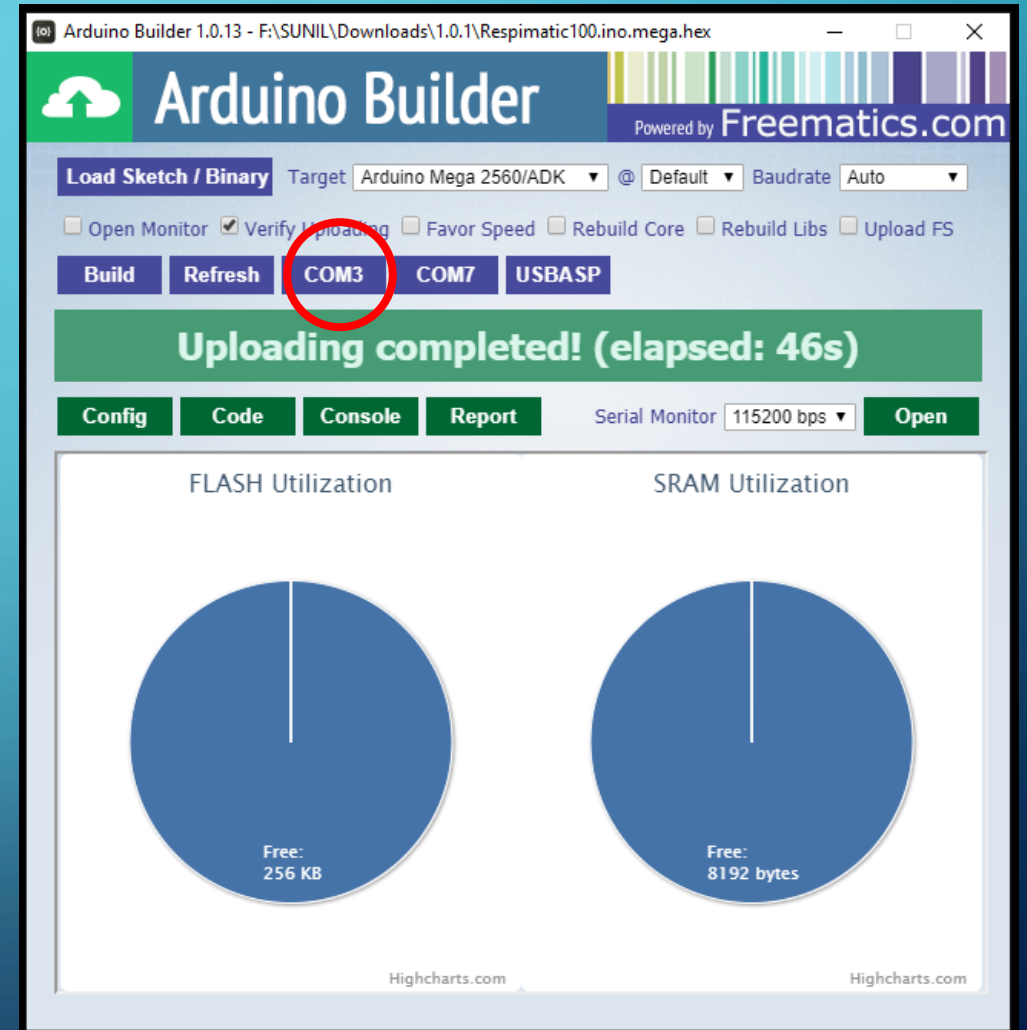
# INSTALL FIRMWARE RELEASE

## STEP 8

Click the correct COM port i.e. the laptop port that the INSPIRE system is connected to (in this example it is COM3)

Arduino Builder will now install the selected file on the INSPIRE system

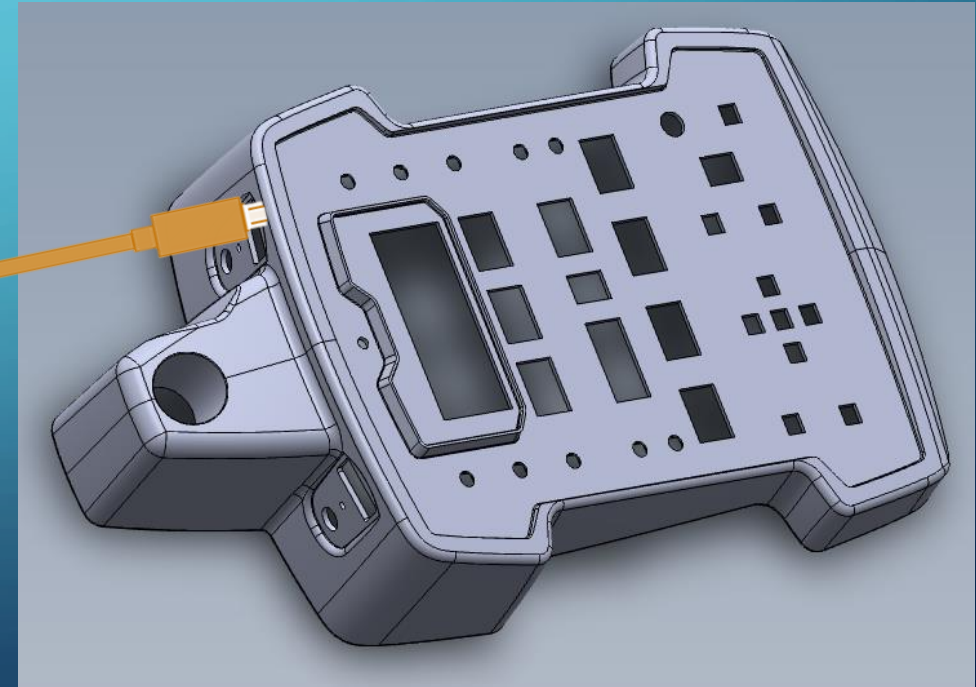
Now we need to follow a similar procedure for the other file in the release.



# INSTALL FIRMWARE RELEASE

## STEP 9

Connect laptop's USB port to the micro-USB port labelled "Wi-Fi" on the back of the control panel of the INSPIRE system

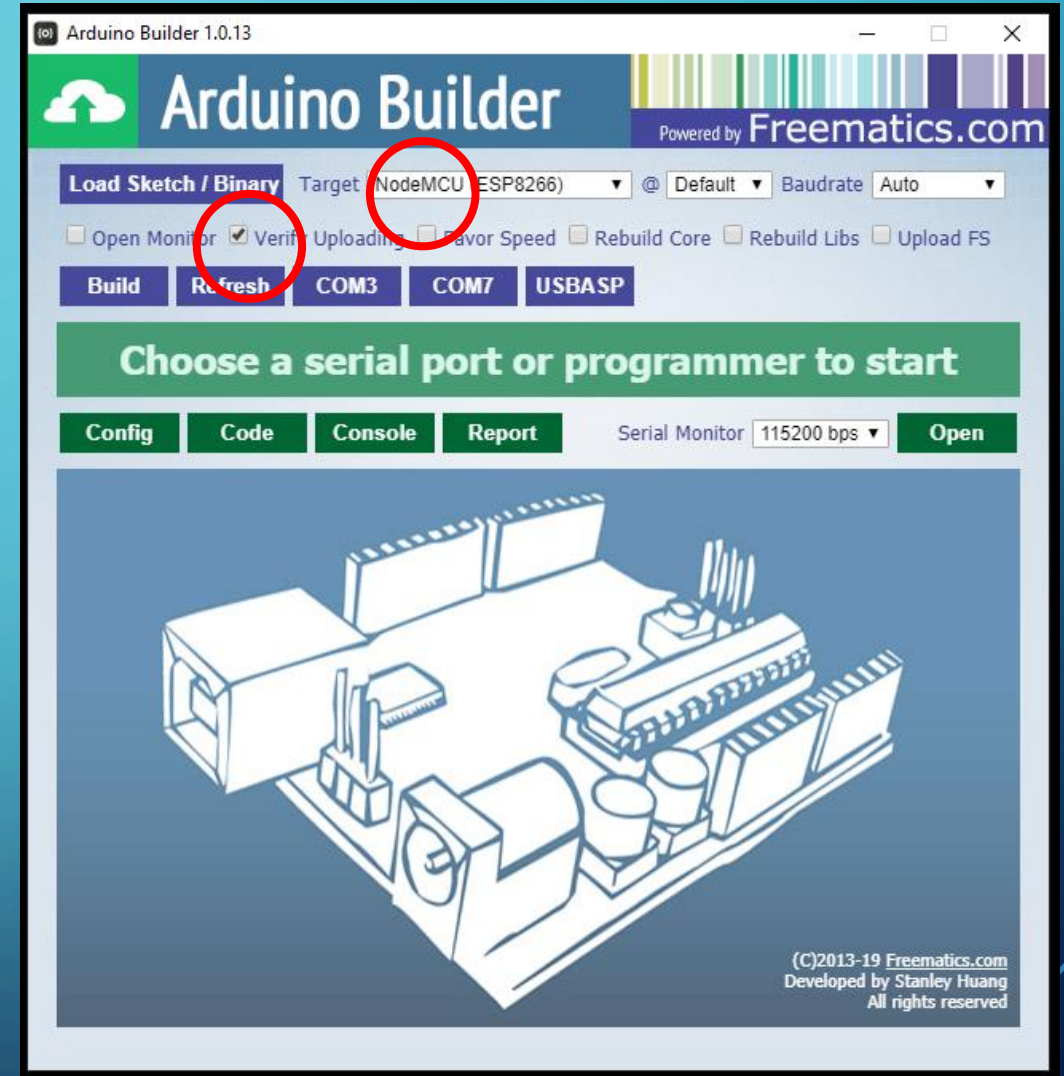


# INSTALL FIRMWARE RELEASE

## STEP 10

Select “NodeMCU (ESP8266)”  
from the dropdown menu in the  
“Target” field

Check “Verify” box



# INSTALL FIRMWARE RELEASE

## STEP 11

Click “Load Sketch/Binary” button on the  
Arduino Builder

Select

INSPIRE-100\_slave.ino.nodemcu.bin  
from the extracted folder of the release



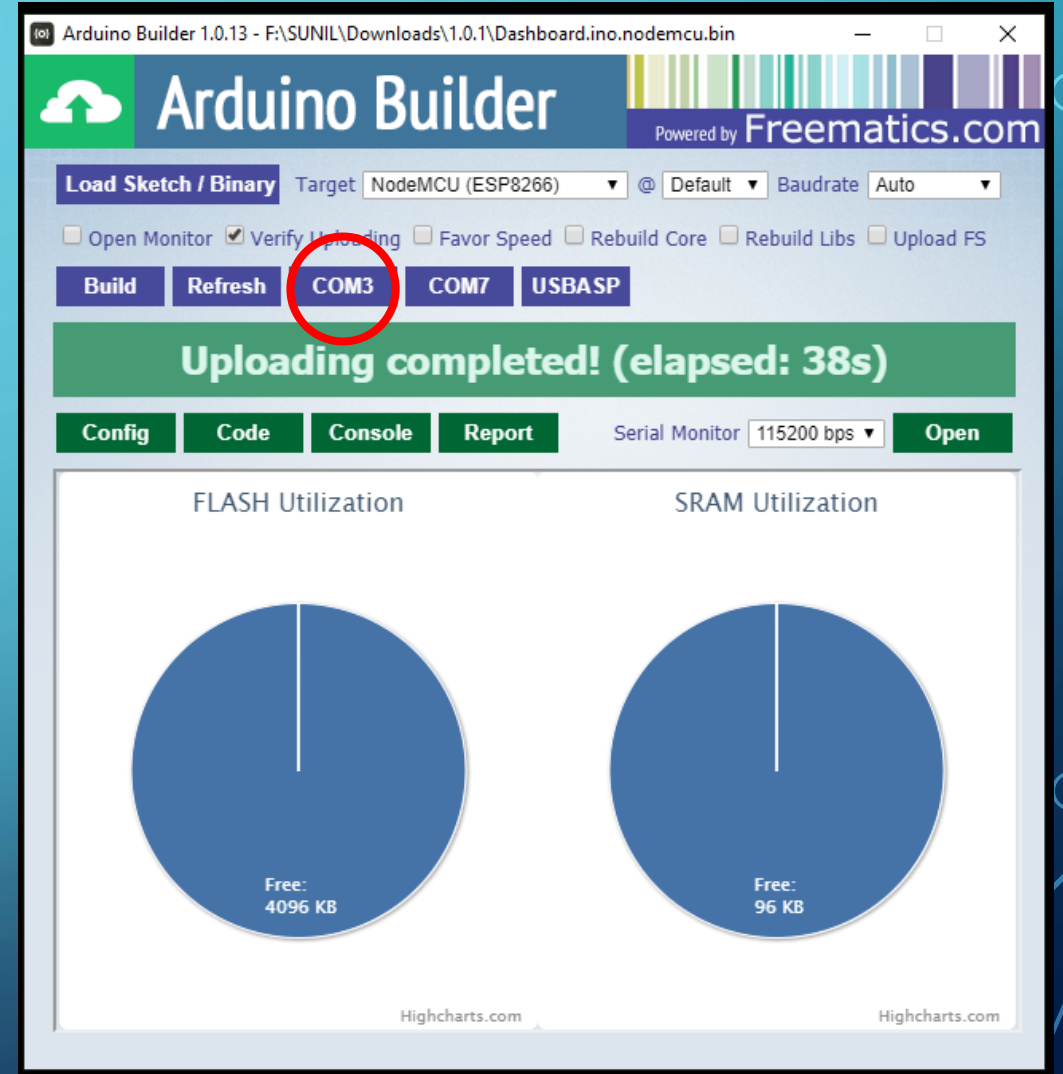


# INSTALL FIRMWARE RELEASE

## STEP 12

Click the correct COM port i.e. the laptop port that the INSPIRE system is connected to (in this example it is COM3)

Arduino Builder will now install the selected file on the INSPIRE-100 system





DONE