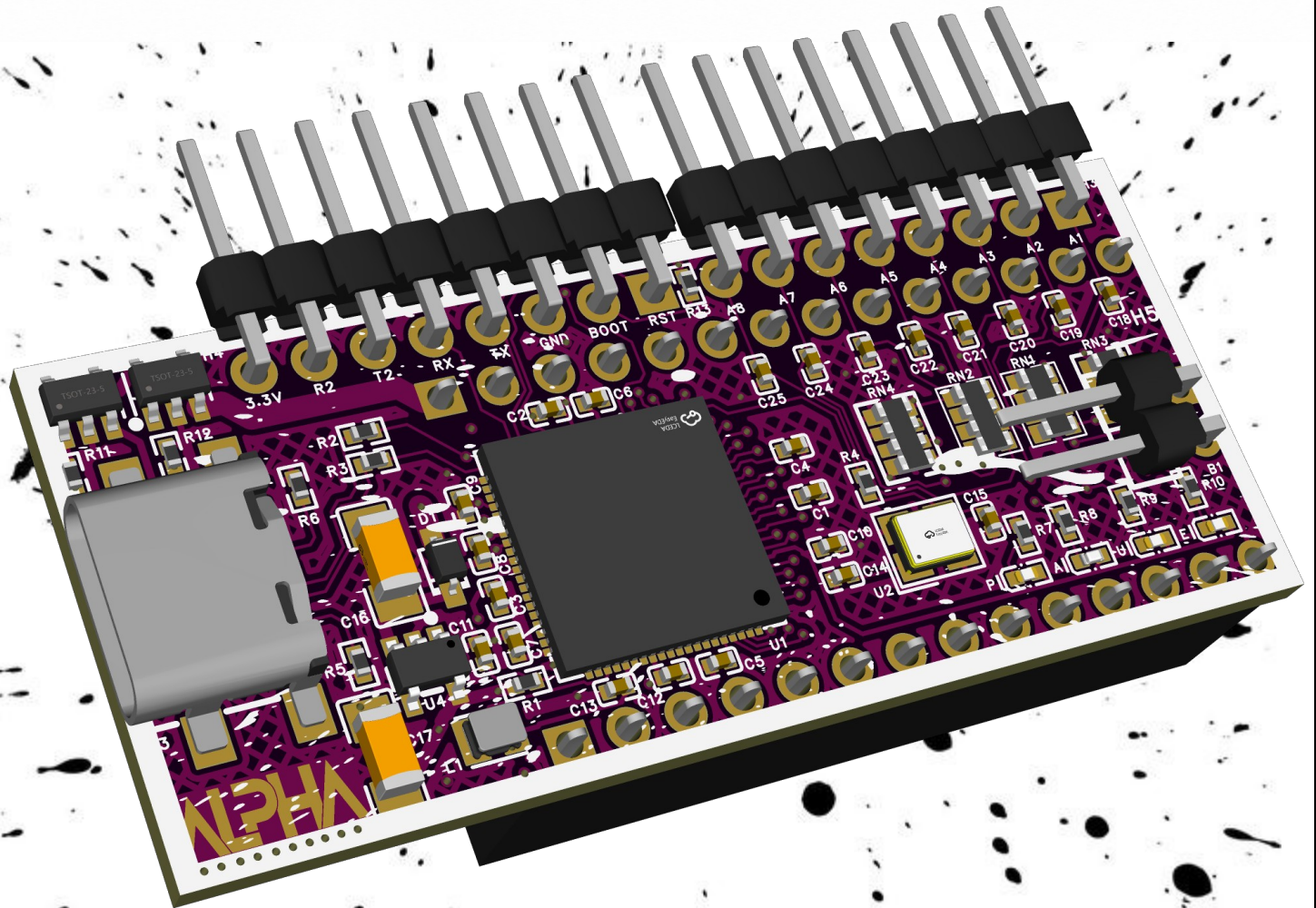
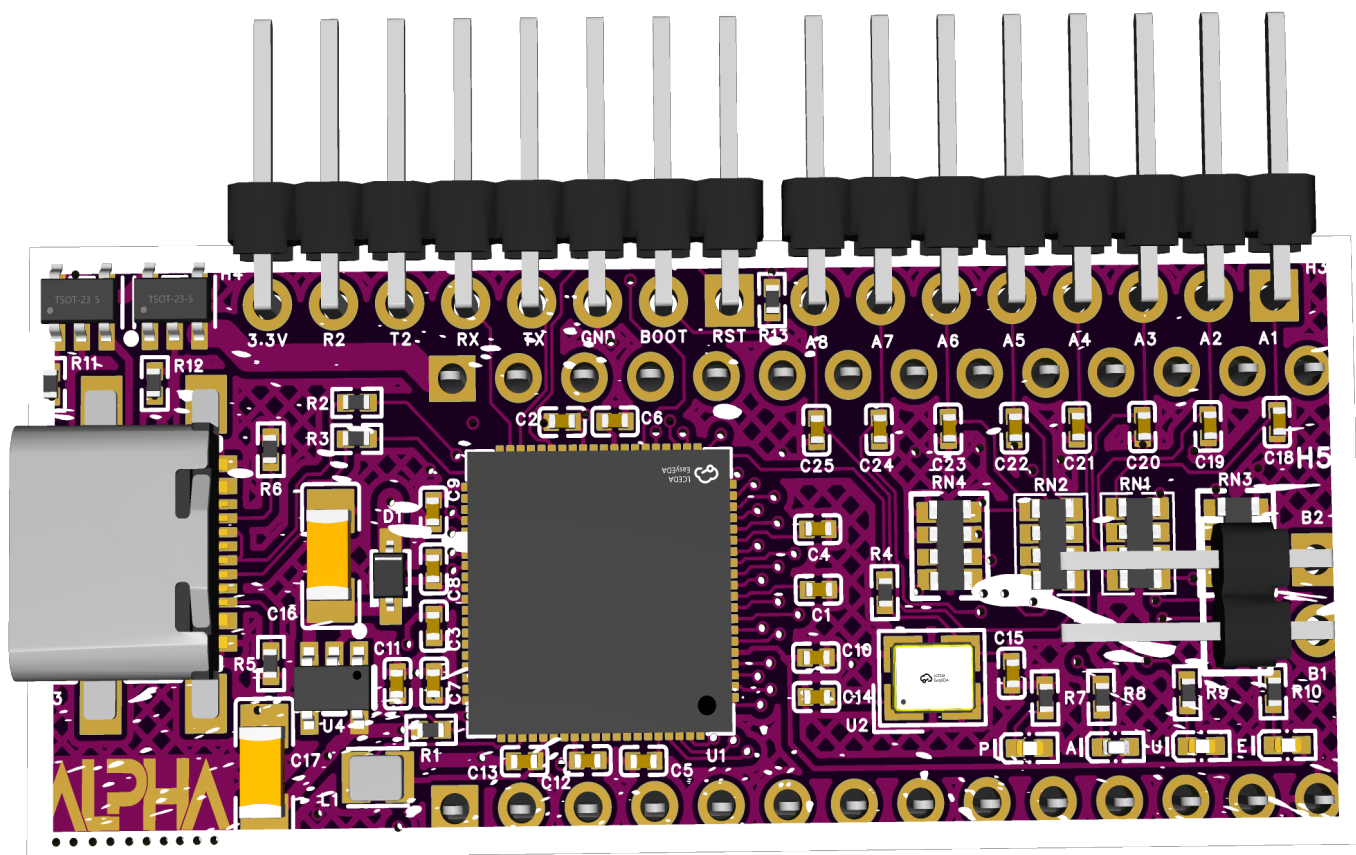


ALPHA NextGEN

NEXT GENERATION OBD1 HONDA EMULATOR

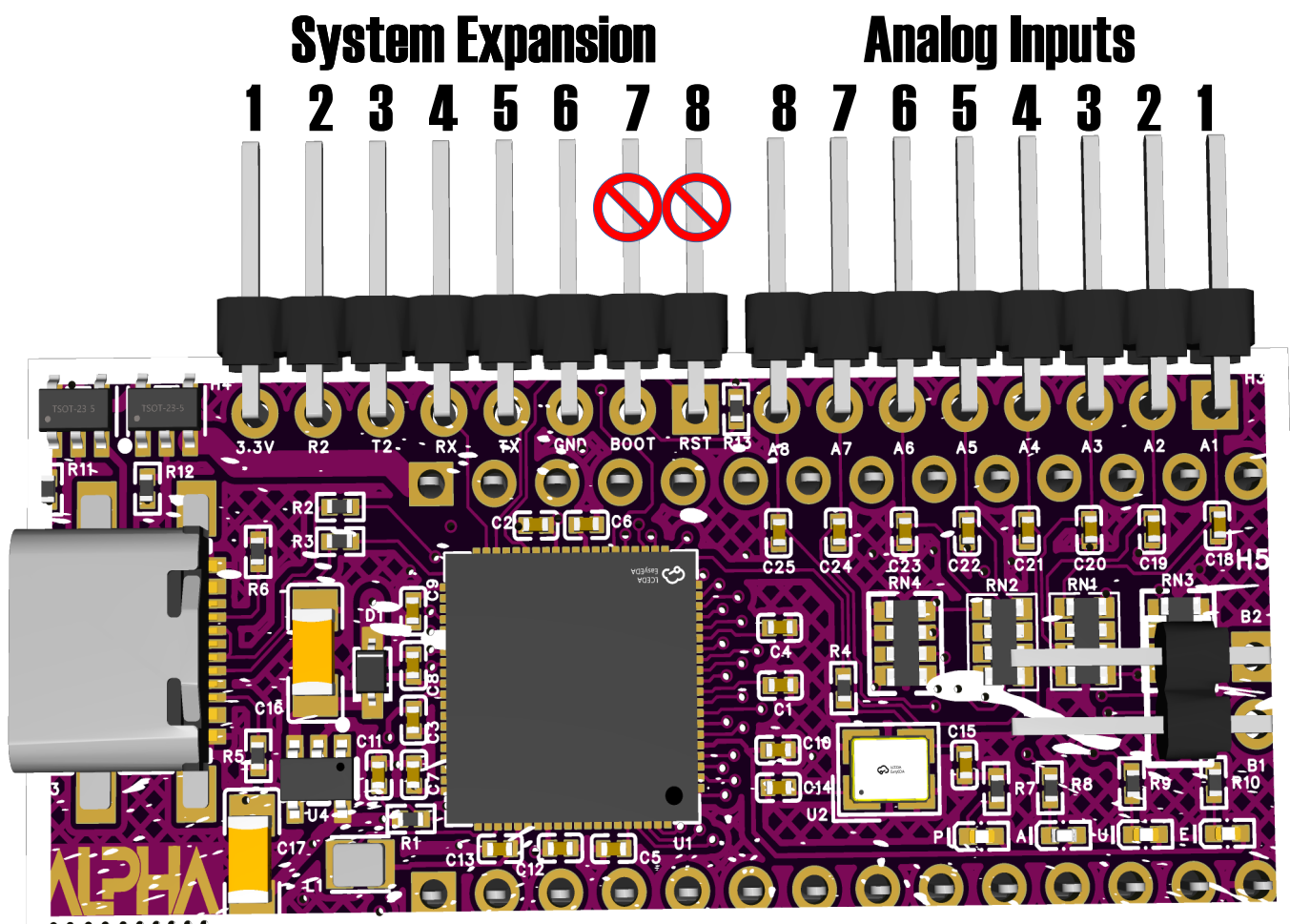


Board Overview



Note: ONLY Use a Right Angle Type-C USB Cable

Connector Reference



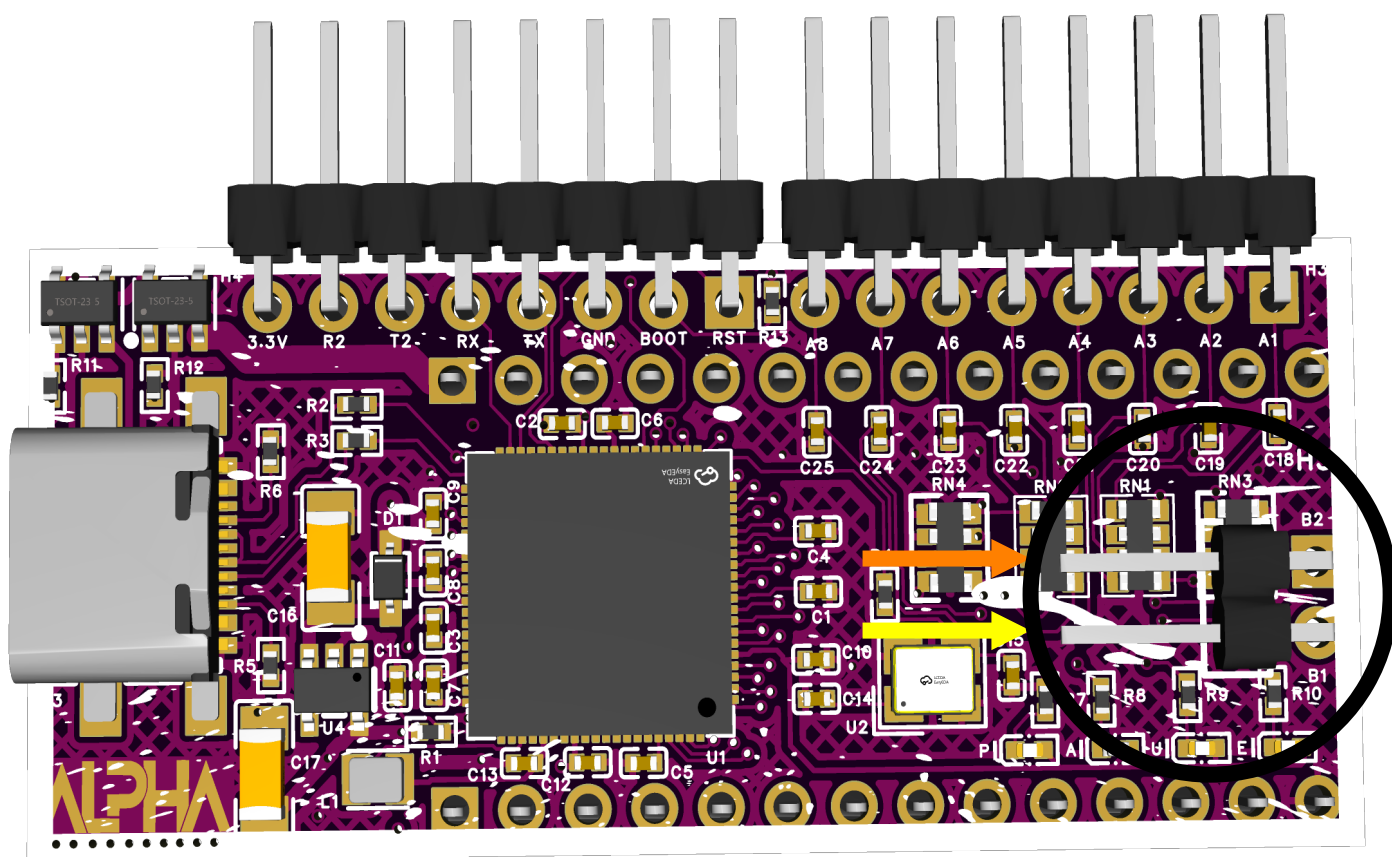
System Expansion

- 1 – 3.3V Reference
- 2 – Bluetooth Reserve
- 3 – Bluetooth Reserve
- 4 – Datalog CN2 Pin 4
- 5 – Datalog CN2 Pin 2
- 6 – Ground Reference
- 7 – Not Used
- 8 – Not Used

Analog Inputs

- 1 – Analog Input 1 Range 0-5V
- 2 – Analog Input 2 Range 0-5V
- 3 – Analog Input 3 Range 0-5V
- 4 – Analog Input 4 Range 0-5V
- 5 – Analog Input 5 Range 0-5V
- 6 – Analog Input 6 Range 0-5V
- 7 – Analog Input 7 Range 0-5V
- 8 – Analog Input 8 Range 0-5V

Connector Reference



Multiple Tune Selection

Tune 1

B2 – Not Connected

B1 – Not Connected

Tune 2

B2 – Grounded

B1 – Not Connected

Tune 3

B2 – Not Connected

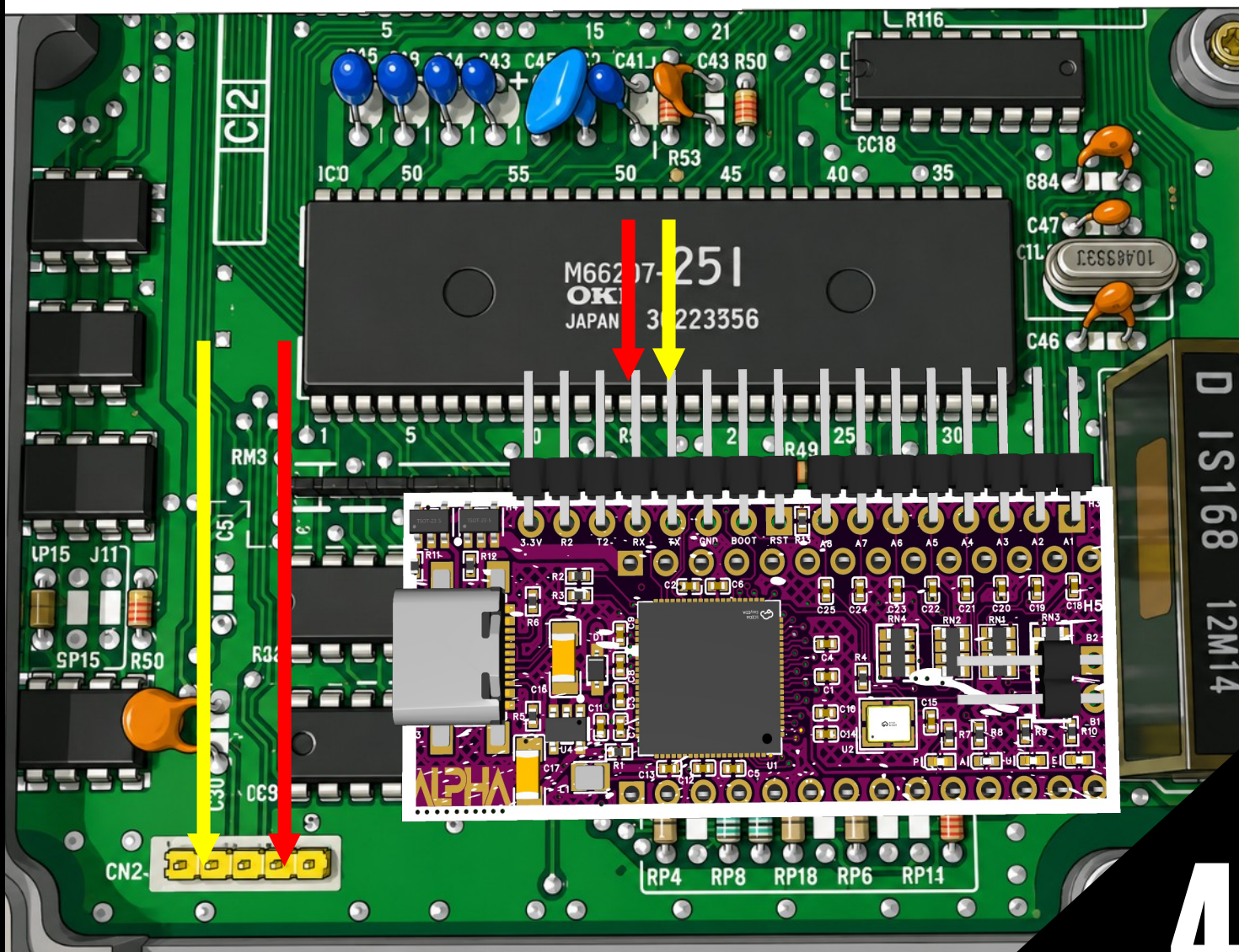
B1 – Grounded

Tune 4

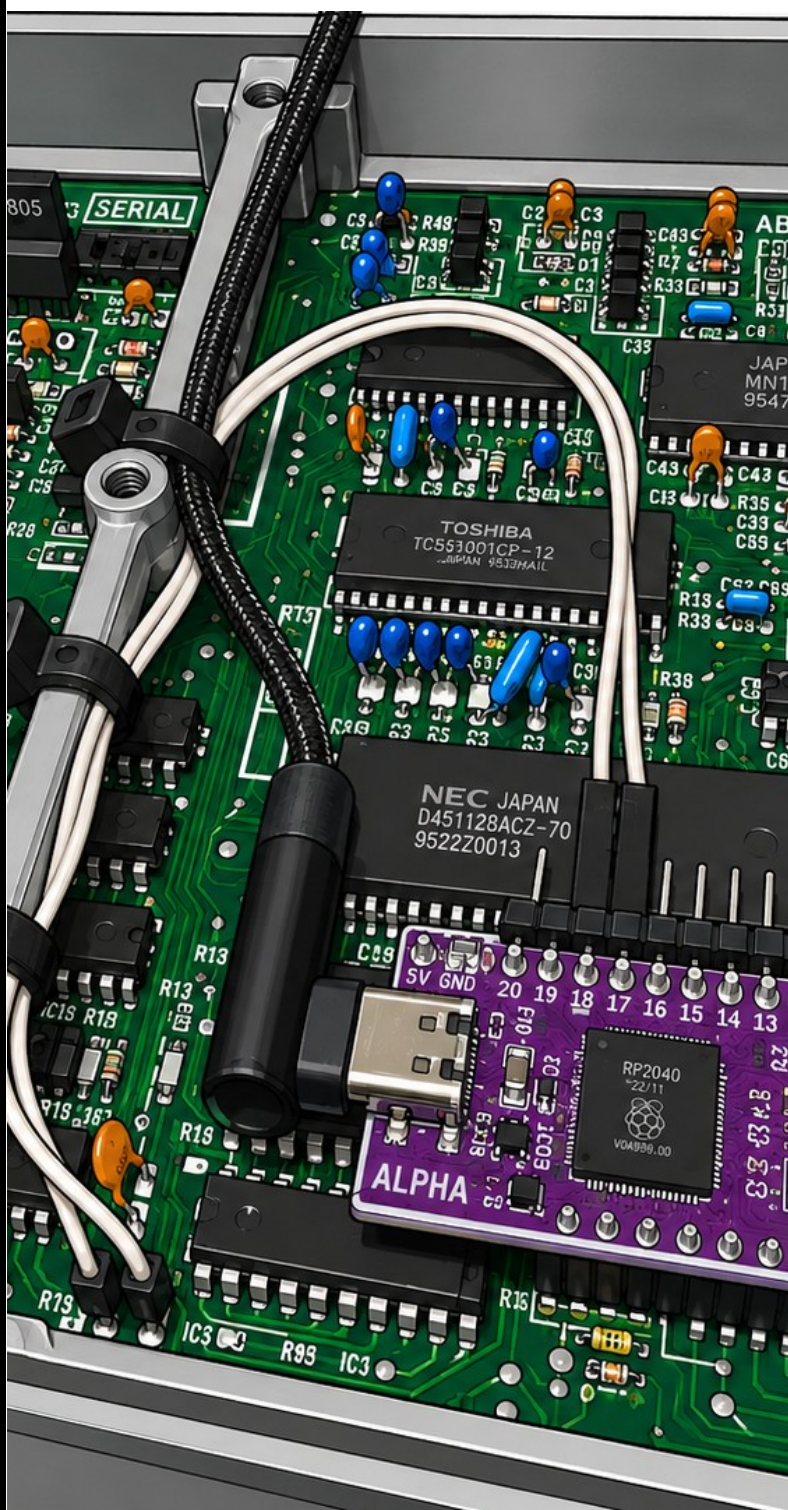
B2 – Grounded

B1 – Grounded

CN2 Datalog Connection



USB Cable Installation



Fasten The USB Cable with Zip-Ties to the ECU Center Support Rail. The Cable Should Be Secured so there is no tension on the USB connection at the NextGEN and so if the cable is tugged/pulled on, it is secured well enough that the USB cable remains undisturbed at the NextGEN USB port.

This will ensure longevity and no damage to the USB port. This design also eliminates large bulky USB connectors hanging outside the ECU case.

Note: The Included USB Cable is Type-C to Type-C

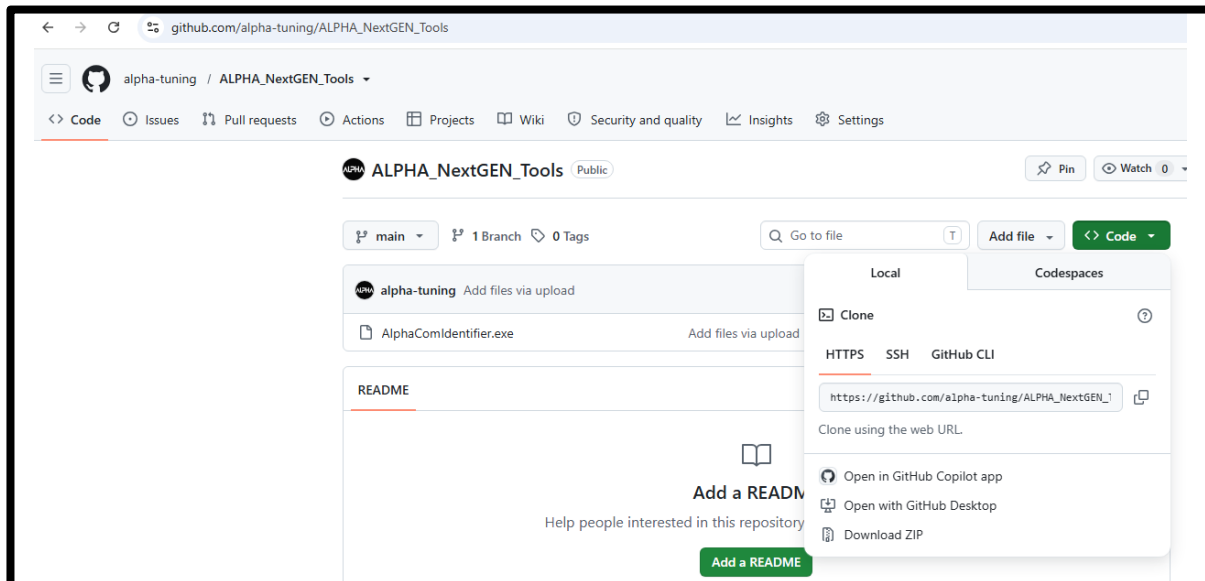
If your PC does not have a Type-C you will need a Type-C to Type-A adapter or a Right Angle Type-A to Type-C USB Cable

PC SETUP

**Plug the USB into ALPHA NextGEN and your PC. If your PC Recognizes the Emulator:
The NextGEN should have 3 LEDS on not 4.**

**To Easily ID which COM PORT(s) to use in your software we suggest grabbing this tool from our Github
"AlphaComIdentifier"**

[Github.com/alpha-tuning/ALPHA_NextGEN_Tools](https://github.com/alpha-tuning/ALPHA_NextGEN_Tools)



**Run the .exe and you should receive an easy to identify COM Selection that describes which COM(s)
To use for connection in your tuning software**

```

ALPHAemu COM Identifier
-----
USB VID:PID  CAFE:4028

Port  Role  Use
-----
COM5   Ostrich  Connect to this COM for Emulator. Use ALPHA/Ostrich in your application. Baud 921600.
COM7   ALPHA   Connect to this COM for Datalog. Baud 38400.
COM20  Debug   Not Used in this Firmware Revision.

Press Enter to exit...|
  
```