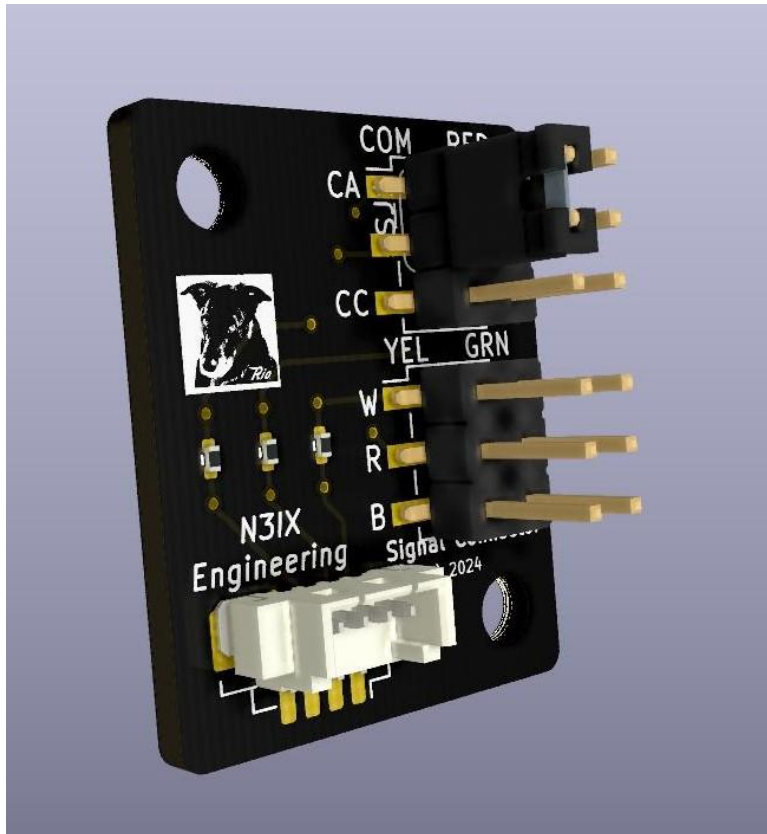# N3IX Engineering

Signal Connector Interface Board Instructions

The Signal Connector Interface Board connects to a signal head using a JST1.25mm-type connector, as found on Atlas® signals.   The board allows the signal head to be attached to any three outputs on a QuadLN_S Signal Board using Servo Extension Cables.


1   Top View

The signal connector wiring, from left to right, is Common, Red, Green, Yellow.   Align the connector from the Atlas® signal so that the Black or Gray wire is towards the left.   The connector will only insert one way.   Make sure it is aligned correctly before pressing it gently into place.

Insert the provided servo cables into the connectors labeled RED, GRN and YEL.   Orient the cables to match the W, R and B (White, Red and Black) labels on the board.

The Signal Connector Interface Board includes an onboard jumper to either Common Anode (CA) as used on newer Atlas/BLMA signals or Common Cathode (CC) as used on older Atlas signals.
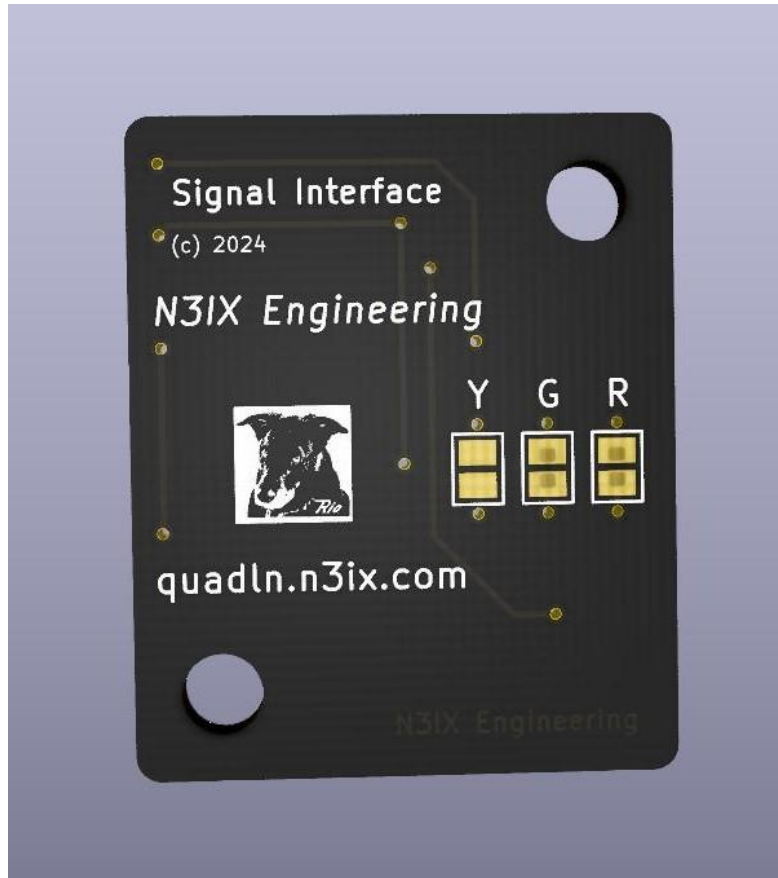
2   Bottom View

Separate current-limiting resistors are provided for each LED.   The default value is 470 ohms, which is in addition to the 330 ohm resistor on the Signal Board itself.   This value was found to work well with an Atlas® dual-head mast.   If an LED is too dim at the maximum brightness setting, the 470 ohm resistor can be bypassed using the corresponding solder jumper on the bottom of the board.   Readjust the fader as needed to achieve the desired brightness after adding the solder jumper.

When using the optional **Signal Cables With Connector** to interface to other types of signals, align the connector so that the Green wire is towards the left.   The connector will only insert one way.   Make sure it is aligned correctly before pressing it gently into place.   The cables are generic so the wire color order will not match the LED colors.   The typical color code is:

      COMMON – Green wire
      RED LED – Yellow wire
      GREEN LED – Black wire
      YELLOW LED – Green wire