

Setup of EZ-Bs for B9 robot.

Basic setup:

The robot is built with 2 EZ-B devices, 1 EZ-B in the torso (main one), 1 EZ-B in the brain. The torso, or main EZ-B, is the primary robot controller. In the ARC software it is connection 0 (zero). The brain EZ-B is connection 1.

To access the EZ-Bs and the internet at the same time, the laptop will need an external wireless network device. (Currently using the NETGEAR USB device which shows up as NETGEAR A6100 WiFi Adapter in Windows Device Manager. The laptop's internal card is listed as Intel Wi-Fi 6 AX201.)

Configuring the EZ-Bs:

Resetting EZ-B device:

To configure the EZ-Bs they need to be reset. While powered on press and hold the reset button. Next power off-on the EZ-B. Then connect to the EZ-B with the USB wireless device (click on WiFi icon in task bar and connect to listed EZ-B). Then connect with a browser (Chrome seems to work well) using address: <http://192.168.1.1>. The main EZ-B home page will be displayed.

Configure each EZ-B, one at a time, starting with Main.

For the Main (torso) EZ-B:

1. Reset EZ-B and connect the USB wireless to EZ-B
2. Log in using address 192.168.1.1 in Chrome
3. Click the Wi-Fi AP Mode
4. Set the **WiFi SSID** to: B9MainDevice
5. Click Save and Reboot
6. Re-connect the USB wireless to B9MainDevice.
7. Log in using address 192.168.1.1 in Chrome
8. Verify SSID
9. Click on General Settings
10. Set the **System Name** to: B9MainDevice
11. Click Save and Reboot
12. Re-connect the USB wireless to B9MainDevice.
13. Log in using address 192.168.1.1 in Chrome
14. Click the Wi-Fi AP Mode
15. Set WiFi Security Key to: B9&tuH3486\$CPsq
16. Click Save and Reboot.
17. Setup USB wireless device to log into B9MainDevice and password.
18. Log back in with Chrome (192.168.9.1) and check Main Menu to see correct System Name and SSID. Check Wi-Fi AP Mode to see address 192.168.9.1.
19. Open ARC and look of EZ-B devices; should see 192.168.9.1 with name B9MainDevice

For the Brain EZ-B:

1. Reset EZ-B and connect the USB wireless to EZ-B

2. Log in using address 192.168.1.1 in Chrome
3. Click the Wi-Fi AP Mode
4. Set the WiFi SSID to: B9BrainDevice
5. Click Save and Reboot
6. Re-connect the USB wireless to B9BrainDevice.
7. Log in using address 192.168.1.1 in Chrome
8. Verify SSID
9. Click on General Settings
10. Set the System Name to: B9BrainDevice
11. Click Save and Reboot
12. Re-connect the USB wireless to B9BrainDevice.
13. Log in using address 192.168.1.1 in Chrome
14. Verify SSID and System Name
15. Click the Wi-Fi AP Mode
16. Set the EZ-B IP Address to 192.168.9.2 for B9BrainDevice
17. Click Save and Reboot
18. Re-connect the USB wireless to B9BrainDevice.
19. Log in using address 192.168.9.2 in Chrome
20. Click the Wi-Fi AP Mode
21. Verify IP address
22. Click the Wi-Fi Client Mode
23. Set the WiFi SSID to : B9MainDevice
24. Set Security Key to: B9&tuH3486\$CPsq
25. Click Save and Reboot.
26. Make sure EZ-B B9MainDevice is on and then turn EZ-B B9BrainDevice on to connect to EZ-B B9-Main-Device.
27. Open ARC and look of EZ-B devices