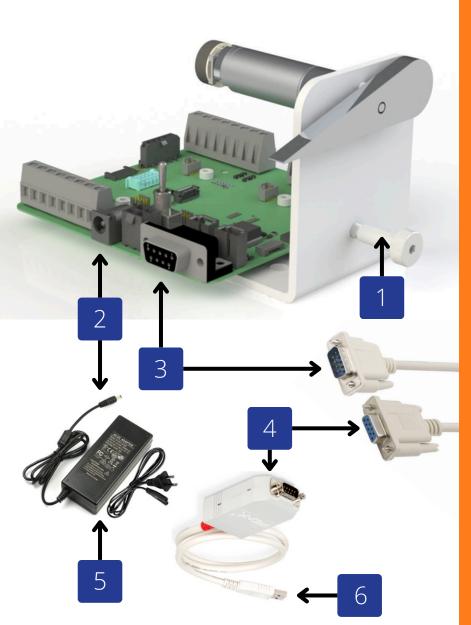


Follow this manual to get the P4 Dev Kit up and running with ease.

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ASSEMBLY

Hardware

1 Thumb screw can be removed to allow free spin (optional).

Electrical

- Plug the barrel jack of the 24V adapter into J16 on the Dev Board.
- Attach the male end of the Serial Cable to JI on the Dev Board.
- Connect the female end of the cable to the CAN Adapter and hand tighten.
- 5 Plug the DC Adapter into an outlet (110-220VAC) to power to the board.
- 6 Connect the CAN Adapter to a USB port on the computer.
- + The Dev Board automatically regulates 12V logic on-board from the 24V input.

SOFTWARE INSTALLATION





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SOFTWARE INSTALLATION



WINDOWS

Software

- Download the latest release package from <u>barrett.com/puck</u>.
- 2 Unzip the package in the desired directory path.
- From the release package, run
 PeakOemDrv.exe and install the driver.
 (Use default installation settings)
- Double-click PuckUtilityApp.exe to
 4 launch the program. Right click on the icon and add to taskbar (optional).

LINUX

Software

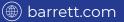
- Download the latest release package from <u>barrett.com/puck</u>.
- 2 Unzip the package in the desired directory path.
- From the PuckUtilityApp directory, open terminal and run ./setup.sh (Enter the password when prompted).
- Double-click PuckUtilityApp.exe to

 Iaunch the program. Right click on the icon and add to taskbar (optional).

PUCK UTILITY APP

Contact Us









Follow this manual to get the P4 Dev Kit up and running with ease.

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PUCK UTILITY APP

Main Features

Calibrate Menu - options for automatic motor calibration.

Note: The Dev Kit comes pre-calibrated for easy setup. Calibration is only required for use with new motors.

2 **CAN Port** - allows CAN bus selection from up to 4 different CAN ports.

Note: This feature allows for multiple CAN busses to operate on a single computer.

- 3 Scan Pucks scans all nodes and automatically connects to lowest ID.

 Note: Scan runs automatically at startup. Scan is only required if power or CAN were not connected at startup.
- 4 **Select ID** select the current Puck from any active node on the CAN bus.

Note: I his feature allows for control over multiple Pucks Simply select the desired Puck ID to switch Pucks.

5 **New ID** - enter a new ID (1-127) and press 'Set' to change the Puck ID.

Note: The Puck ID is limited to the 7-bit CAN-ID specified by CANopen standard.

6 **Version** - displays firmware version and enables future updates.

Note: Future updates will be available for download Clicking the logo automatically opens the webpage

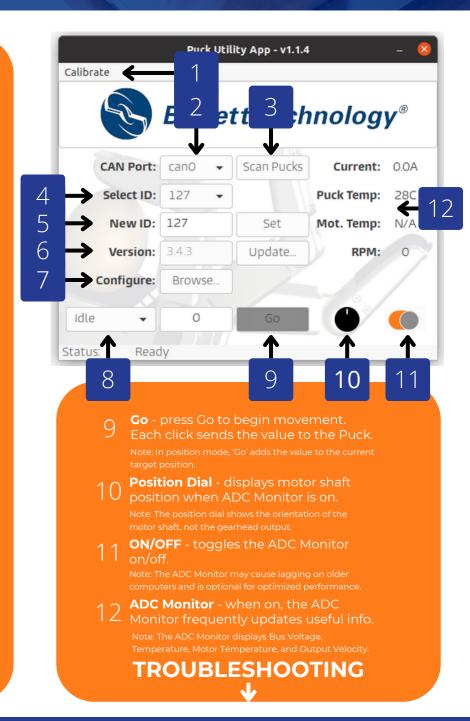
7 **Configure** - file browser for selecting CANopen motor configurations.

Note: Selecting a file automatically updates the motor configuration stored on the Puck.

Mode Select - choose active mode; Torque, Vel, Pos, and Homing.

Note: Input ranges are as follows:

Torque: + 420 mNm Vel: + 350 RPM Pos: + 175 780 Deg





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TROUBLESHOOTING

No CAN bus Found!



CAN network was unable to initialize. This could be a missing driver or an issue with the CAN adapter.



Check connections between the

Verify the CAN driver is installed and

No Pucks found!



active Pucks were found on the bus. This could be an issue with power or CAN connection.



Ensure cables are properly connected. If the issue persists, try reconnecting

Motor not spinning



A test is run but the motor does not This could be caused by a bad



Open the Calibrate menu and run through each calibration.

Other issues

ID already in use! - Every Puck on the bus must have a unique CAN ID.

No active node! - Modes cannot be set without an active Puck selected.

No input value! - Tests cannot be run

No test selected! - A test must be selected to command input data.

If a new issue occurs, please reach out for support from Barrett Engineers!

Contact Us





