



B Module

*Original Operating
Instructions*

Table of Contents

1	Foreword.....	3
2	System requirements.....	3
3	App download.....	3
4	Safety.....	4
4.1	Notes and symbols used.....	4
4.2	General safety.....	5
4.3	Intended use.....	6
4.4	Reasonably foreseeable misuse.....	6
5	General description.....	7
5.1	B Module.....	7
5.2	Jumper.....	7
6	Operation.....	8
6.1	Connecting the B module.....	8
6.2	Pairing the B module with iOS for the first time.....	9
6.3	Pairing the B module with Android for the first time.....	10
6.4	Connecting the B module to the mobile end device.....	11
6.5	Unpairing from the mobile end device.....	11
6.6	App information.....	11
7	Troubleshooting.....	12
8	Technical specifications.....	12
9	Imprint.....	13

1 Foreword

Congratulations on purchasing your bavarianDEMON B module.

With the B module and a mobile end device, you can configure the AXON or CORTEXpro. The corresponding iOS app or Android app is available in the respective store.

2 System requirements

iOS

iOS 11.2.5 or higher. We recommend using the latest OS version available for the mobile end device.

The mobile end device must be 64-bit-capable and compatible with the Bluetooth Low Energy standard (iPhone 5S and up).

Android

OS 6.0 or higher. We recommend using the latest OS version available for the mobile end device.

Processor: ARMv7 (Cortex) CPU with NEON support or Atom-CPU OpenGL ES 2.0 or higher.

The mobile end device must be compatible with the Bluetooth Low Energy standard.

AXON / CORTEXpro

Bluetooth feature requires firmware V2.0/2000 or higher.

3 App download

These QR codes will take you to the stores for downloading the bavarianDEMON ACP Config app.

iOS



Android



4 Safety

4.1 Notes and symbols used

Warning notes in relation to personal injury / material damage are formulated according to the "SAFE" principle. This means they contain information on the type and source of the hazard, potential consequences as well as how to avoid and avert danger. The following hazard classifications apply in the safety notes:



Danger designates a hazardous situation, which will lead to death or serious injury if attention is not paid.



Warning designates a hazardous situation, which may lead to death or serious injury if attention is not paid.

 **CAUTION**

Caution designates a hazardous situation, which may lead to injury if attention is not paid.

NOTICE

Notice designates a situation, which may cause material damages and impair the product's function if attention is not paid.

TIP

Tip provides additional useful information about the handling of the product.

Symbol	Meaning
▸	Avoiding and adverting danger in the warning note
▶	Instructions for action All instructions to be followed within a procedure are always listed in chronological order.
▪	List

4.2 General safety

Children 14 and under and some other groups are at higher risk than others due to lacking experience or knowledge. For this reason:

- Children and individuals with lowered physical, sensory or mental abilities or a lack of experience must not use this device.

In model flight, the models, propellers and/or rotors reach high speeds. This presents a general risk of death. For this reason:

- ▶ Always operate the model aircraft keeping an adequate distance from people, animals, buildings and other material goods.
- ▶ Before configuration using the B module, switch off the motor and secure it against being switched on.
- ▶ During configuration with the B module, ensure you apply the correct values.

When switched on, the B module transmits high-frequency electromagnetic waves. Excessively close and long contact can result in tissue damage. For this reason:

- ▶ Remove the B module following configuration.
- ▶ Do not wear the B module on your person when it is on.
- ▶ Do not open the B module.

Unfavorable environmental influences can damage the B module. For this reason:

- ▶ Protect the B module from direct sunlight.
- ▶ Protect the B module from humidity and dirt.

4.3 Intended use

The B module is used to configure the CORTEXpro or AXON with a mobile end device.

4.4 Reasonably foreseeable misuse

A use other than that specified under chapter "[Intended use](#)" or extending beyond this is deemed to be improper.

The B module is not suitable for:

- use with gyro systems other than the AXON or CORTEXpro.
- use outside the range of the technical specifications.

5 General description

5.1 B Module

Side port, 3-pin (A)

The side port is required to pair the B module to the mobile end device for the first time.

USB port (B)

The USB port connects the B module to the AXON or CORTEXpro via a USB cable.

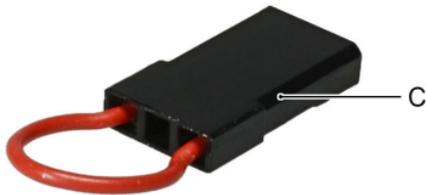
The USB connection supplies data and power.



5.2 Jumper

Jumper (C)

Required to pair the B module to the mobile end device for the first time.



6 Operation



WARNING

Improper handling of the model can result in death or life-threatening injuries.

- ▶ Before connecting the B module, switch off the motor and secure it against being switched on.
- ▶ Only operate the B module with an AXON or CORTEXpro.
- ▶ Follow the instructions for the AXON or CORTEXpro.
- ▶ Follow the instructions for the model and the remote control.

NOTICE

Improperly connecting the B module can cause damage to the B module.

- ▶ Supply the B module with power via the USB port.
- ▶ Do not use the side port for power supply.
- ▶ Only connect the B module to the AXON or CORTEXpro using the provided USB cable.

6.1 Connecting the B module

Requirements: The bavarianDEMON ACP app is installed on your mobile end device.

- ▶ Connect the B module and the gyro system using the USB cable.
The appropriate cable is included with the gyro system.
- ▶ Switch on the power supply on the gyro system.
Switch on the model or connect another suitable power source to the gyro system.

6.2 Pairing the B module with iOS for the first time

- ▶ Connect the B module and the gyro system using the USB cable.
- ▶ Switch on the power supply on the gyro system.
- ▶ Switch on Bluetooth on your mobile end device.
- ▶ Open the app.
- ▶ Plug the jumper (A) into the side port (B) on the B module.
- ▶ The LED begins to blink after five seconds.

Pairing mode is active for one minute.

- ▶ Remove the jumper (A) from the side port (B) on the B module.
- ▶ In the app, scan for active devices.
- ▶ Select the desired device.
- ▶ Confirm to connect.
- ▶ Confirm pairing.
- ✓ The B module connects to the mobile end device and the system connects to the app.



6.3 Pairing the B module with Android for the first time

- ▶ Connect the B module and the gyro system using the USB cable.
- ▶ Switch on the power supply on the gyro system.
- ▶ Switch on Bluetooth on your mobile end device.
- ▶ Plug the jumper (A) into the side port (B) on the B module.
- ▶ The LED begins to blink after five seconds.

Pairing mode is active for one minute.

- ▶ Remove the jumper (A) from the side port (B) on the B module.
- ▶ In the mobile end device's Bluetooth menu, select and pair the desired device.
- ▶ Open the app.
- ▶ In the app, scan for active devices.
- ▶ Select the desired device.
- ✔ The B module connects to the mobile end device and the system connects to the app.



6.4 Connecting the B module to the mobile end device

If you are connecting the B module to the mobile end device for the first time, please continue reading here ["Pairing the B module with iOS for the first time", page 9](#) or here. ["Pairing the B module with Android for the first time", page 10](#)

Requirements: The gyro system and B module are connected and switched on.

- ▶ Open the app.
- ▶ In the app, scan for active devices.
- ▶ Select the desired device.
- ✔ The B module connects to the mobile end device and the system connects to the app.

6.5 Unpairing from the mobile end device

Requirements: B module is connected to gyro system, not powered yet.

- ▶ Bridge the three side pins.
- ▶ Power on B module by powering on gyro system.
- ▶ Wait 40 seconds.
- ▶ Power off B module by powering off gyro system.

TIP

No feedback is given. The device has now unpaired from all other devices.

6.6 App information

AXON and CORTEXpro data cannot be stored mixed.

7 Troubleshooting

Mobile end device won't pair

- B module already paired?
- Bluetooth disabled on your mobile end device?
- B module not in pairing mode?

System won't pair

- Switch off the B module for at least five seconds and then back on.
- Correctly connected using the USB cable?
- Original USB cable from the gyro system in use?
- Place all control elements in the neutral position.
- Power supply on?
- Already paired?

Device not found during scanning.

- Switch on location (only Android).

8 Technical specifications

This device contains
FCC ID: XPYNINAB1
IC: 8595A-NINAB1

Technical specifications B module

Dimensions	50 x 25 x 15 mm
Weight	13 g
Operating temperature	-15°C (5°F) to +55°C (131°F)

9 Imprint

The operating instructions have been authored and published by
CAPTRON Electronic GmbH – Johann-G.-Gutenberg Straße 7 – 82140 Olching –
Germany
Copyright 2018