

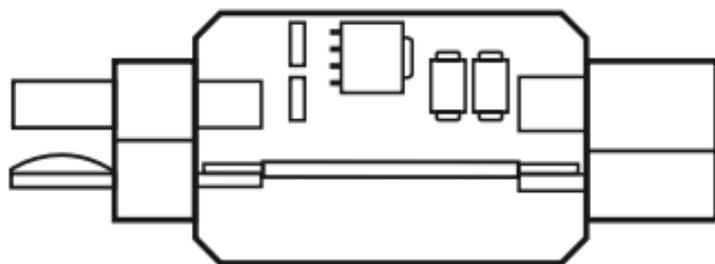
The background features a large, semi-transparent watermark of the word "bluelink" in a rounded, lowercase font. The letters are a lighter shade of blue than the background.

# QUICKSTART GUIDE



## Congratulation on your new Blu-Link!

It allows you to control your GATE ETU (Electronic Trigger Unit) and connect it to other compatible devices wirelessly via GATE Control Station app. Moreover, Blu-Link is an additional adjustable smart fuse and multifunctional wattmeter enabling to, e.g., read telemetry data.



blu link

Together with the GCS, you can adjust TITAN or ASTER settings and update or upgrade their firmware from devices with Android, iOS and since fall 2020, also Windows or macOS.



## **CONTROL STATION**

Windows™ | macOS™ | Android™ | iOS™

## Safety Summary

For your safety, read the information below carefully before installing the device.



### Warning

Situations that may cause injury to yourself or others.



### Caution

Situations that may cause damage to your device or other equipment.



### Notice

Notes, usage tips or additional information.



### **Warning**

Before starting the installation process, make sure your AEG is empty and there are no BBs inside.



### **Warning**

Do not store or carry flammable liquids, gases or explosives in the same compartment as the device, its parts or accessories.



### **Warning**

Incorrectly connecting positive and negative battery terminals may cause immediate damage to the device, which is not covered by the warranty, and can lead to fire.

**Caution**

Prevent the device from contact with conductive materials, such as dust, liquid or metal powder.

**Caution**

Connecting battery with voltage over 17 V will cause permanent damage to the device, which is not covered by the warranty.

**Caution**

Do not remove the device protective heat-shrink tube.

**Notice**

The product Warranty Form is available on our website:  
[www.gatee.eu/warranty](http://www.gatee.eu/warranty)



## Notice

In case you have any difficulties while installing or using this product:

a) email us at *support@gatee.eu*

b) contact us via Facebook:

*<https://www.facebook.com/gatee>*

c) call (+48) 122-100-523

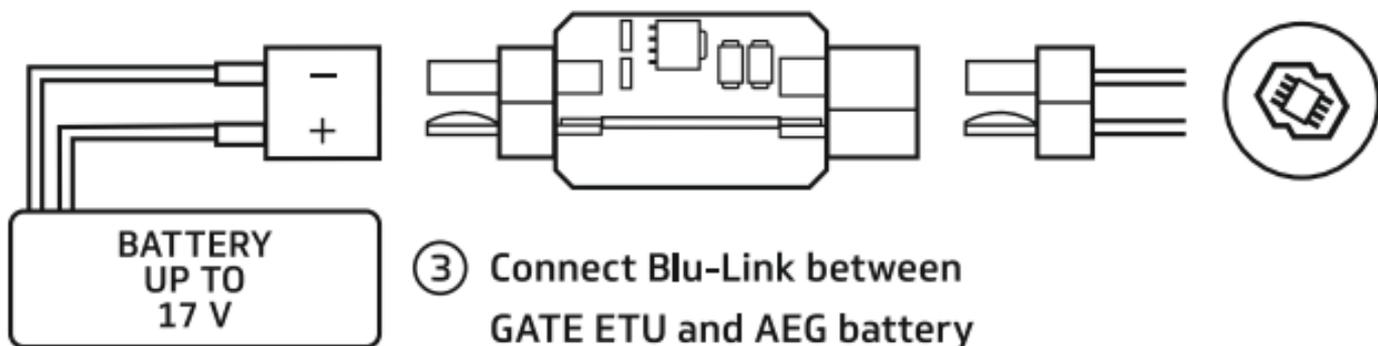
## How to use Blu-Link



- ① Download and install  
GATE Control Station



- ② Enable Bluetooth





### Notice

You can use Blu-Link without ETU. It will work as a smart fuse and multifunctional wattmeter enabling to, e.g., read telemetry data.

## First connection via GCS

1. Download and install GATE Control Station:  
*[www.gatee.eu/gcs](http://www.gatee.eu/gcs)*
2. Enable Bluetooth function on your device
3. Prepare Blu-Link troubleshooting card included in the kit
4. Plug Blu-Link into AEG battery, LED side up. LED should glow green for 1 s.

5. Read the LED status and relate to troubleshooting card
6. Log into the GCS app
7. Prepare PIN printed on the Blu-Link PIN card
8. Connect Blu-Link by following the instructions from the GCS
9. Plug Blu-Link into AEG/ETU
10. Enjoy using of the Blu-Link

## Plug and play

1. Plug Blu-Link into AEG battery
2. Plug Blu-Link into AEG/ETU
3. Enjoy the airsofting



### Notice

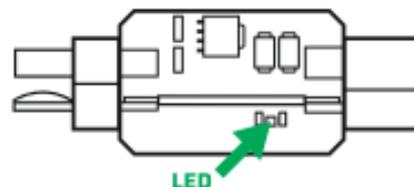
Keep the Blu-Link PIN card or save PIN printed on it – you will need it for each new connection. If you lose your PIN, contact us at [support@gatee.eu](mailto:support@gatee.eu).



### Notice

Blu-link is compatible with the Bluetooth version 4.0 or later.

# Troubleshooting



LED	WHAT HAPPENED	WHAT TO DO
 1 s on start	Self-test was completed with no errors	Blu-Link is ok. Wait for further LED indications
 GLOWING	USB-Link is connected	
 BLINKING	Blu-Link is ready for the Bluetooth connection	Enjoy the airsofting or connect Blu-Link to the GCS
 GLOWING	Self-test and Bluetooth connection have failed	a) Contact us at: <a href="mailto:support@gatee.eu">support@gatee.eu</a> b) If you have USB-Link, connect to the GCS and perform diagnostics

LED	WHAT HAPPENED	WHAT TO DO
 BLINKING	a) Blu-Link does not have a firmware installed b) Blu-Link internal error	a) Install the Blu-Link firmware via GCS b) Connect Blu-Link to the GCS and perform diagnostics
 GLOWING	Blu-Link is connected correctly	Enjoy using of Blu-Link
 GLOWING	Blu-Link is transmitting firmware data	Wait until the data has been transmitted. Keep the device with GCS close to Blu-Link
OFF after 120 s	a) Battery saving mode b) Battery is disconnected	a) Enjoy the airsofting b) Connect battery
OFF after connecting the battery	a) The battery is discharged or damaged b) Battery deans-t connector is not compatible	a) Charge or replace the battery b) Replace the battery deans-t connector for the one from the kit
 BLINKING	Overload, DTC being displayed: 2 - ULL, 3 - OCP, 4 - SCP, 5 - OTP	Read what to do in the Quickstart or GCS app
 BLINKING	Too low voltage, DTC being displayed: 1 - UVP1, 2 - UVP2, 3 - UVP3	Read what to do in the Quickstart or GCS app

## **DTC Codes**

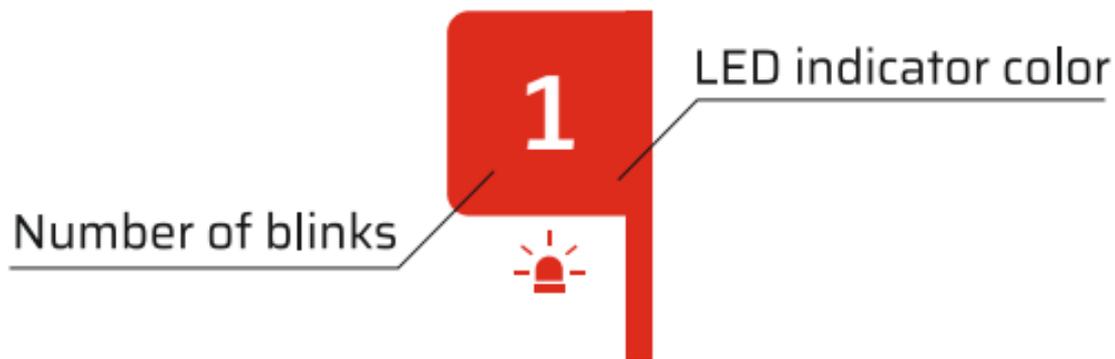
Diagnostic Trouble Codes (DTC) inform about basic malfunctions and problems with your battery, AEG, ETU or Blu-Link. You are notified of them by LED blinking for 2 minutes after the problem occurs. The Blu-Link DTC can be later read and cleared in DTC menu in GCS app.

### **In the event of trouble**

1. The color of LED reflects on the problem type:
  - a) Yellow indicates a warning
  - b) Red indicates a critical problem

2. Number of blinks determines what exactly the problem is (for reference, read DTC explanations presented later on in this guide)

## DTC explanations





i

### Notice

If you use an ETU connected to Blu-Link, check also the ETU DTC. Blu-Link is designed to withstand higher power load and lower voltage than ETU, so in most cases, the ETU protection turns on earlier and the Blu-Link does not detect the problem.



2

### User Load Limit (ULL)

What happened:

User load limit was exceeded.

Possible reason:

1. The load limit is set too low, according to the AEG configuration.
2. Other possible reasons the same as in OCP or SCP.



**What to do:**

1. Modify adjustable smart fuse settings.
2. Follow the OCP or SCP guidelines.
3. Contact us at *support@gatee.eu*

### 3



## **Over Current Protection (OCP)**

### **What happened:**

Blu-Link has detected a too high current.  
The overcurrent protection was activated.

### **Possible reason:**

1. Motor is damaged.
2. Motor or gearbox is jammed.
3. Motor connections short circuit.

### **What to do:**

1. Replace the motor.
2. Unjam the motor or gearbox.
3. Check and fix the motor wires insulation.

## 4

### **Short Circuit Protection (SCP)**

**What happened:**

Blu-Link has detected a current over 270A.  
The short circuit protection was activated.

**Possible reason:**

1. Motor is damaged.
2. Motor or gearbox is jammed.
3. Motor connections short circuit.

**What to do:**

1. Replace the motor.
2. Unjam the motor or gearbox.
3. Check and fix the motor wires insulation.



## 5



### **Over Temperature Protection (OTP)**

#### **What happened:**

Blu-Link temperature is too high.

Over temperature protection was activated.

#### **Possible reason:**

1. Outside temperature is too high in correlation with the demanding AEG.
2. Frequent short circuits and Blu-Link electrical overloads.

#### **What to do:**

Wait until the temperature drops.

1

## **Under Voltage Protection 1 (UVP1)**

**What happened:**

Battery protection was activated.

**Possible reason:**

The battery is discharged.

**What to do:**

Charge the battery.



2

## **Under Voltage Protection 2 (UVP2)**

**What happened:**

The voltage dropped below level critical for Blu-Link to work properly.





**Possible reason:**

1. The battery is discharged.
2. The battery is worn out and has too high internal resistance.
3. Inadequate battery type for given AEG configuration.
4. Too much electrical resistance between Blu-Link and the battery.
5. Motor is too powerful for the battery connected.
6. Motor connections short circuit.
7. Motor is jammed.
8. Motor is damaged.

**What to do:**

1. Charge the battery.
2. Replace the battery.
3. Use a battery of a greater capacity or voltage.

4. Do not use any adapters.
5. Use standard or high-torque motors instead of high-speed ones.
6. Check and fix the motor wires insulation.
7. Unjam the motor.
8. Replace the motor.

### 3

#### **Under Voltage Protection 3 (UVP3)**

**What happened:**

Protection against over-discharge of the battery. Battery protection activated immediately after the battery was connected.

**Possible reason:**

1. Number of cells differs from the number set in the GCS.
2. The battery is discharged.



### What to do:

1. Set the same number of cells in GCS as in the battery.
2. Charge the battery up.



### Notice

There may be several codes displayed one after another, e.g., SCP and UVP2: 4 red blinks, 2 yellow blinks.



### Notice

It is a good practice to clear the DTC in GCS before each skirmish.

## Compatible with:

- TITAN V2
- TITAN V3
- TITAN V2 NGRS
- ASTER V2
- ASTER V3
- STATUS

and future GATE products

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## **Product compliance**

### **CERTIFICATE OF CONFORMITY**

GATE Enterprise sp. z o.o. sp. k. hereby declares under our sole responsibility that GATE Blu-Link is in conformity with the essential requirements of the following Directives:

EC DIRECTIVE 2011/65/EU. The product is certified as RoHS Compliant.



## **PRODUCT COMPLIANCE REGARDING THE USE OF ANNA-B112 MODULE**

This device complies with Part 15 of the FCC [Federal Communications Commission] Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause interference; and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

 **ANATEL**  
03850-19-05903

This equipment operates on a secondary basis and, consequently, must accept harmful interference, including from stations of the same kind, and may not cause harmful interference to systems operating on a primary basis.

This device contains  
FCC ID: XPYANNAB1  
IC: 8595A-ANNAB1

Contains Transmitter Module

內含發射器模組:  **CCAI18LP2200T2**



 **R-C-ULX-ANNA-B112**

 **R 204-810005**

# Legal Notice

**Please read this Legal Notice before operating your device and keep it for future reference.**

This document contains important terms and conditions with respect to your device.

By using of this device, you accept those terms and conditions.

## **EXCLUSION OF LIABILITY**

GATE Enterprise sp. z o.o. sp. k. is not liable for any damages, injuries or accidents of any kind resulting from the use of this product or airsoft gun with the product installed, including (but not limited to) incidental or intentional damages to airsoft gun, airsoft gun parts, batteries and gearbox internals.

## **DISCLAIMER**

GATE Enterprise sp. z o.o. sp. k. takes no responsibility regarding compliance of the product with the requirements of any law, rule or airsoft restrictions pertaining thereto.

## **INTELLECTUAL PROPERTY**

Intellectual Property owned by GATE Enterprise sp. z o.o. sp. k., including (but not limited to) devices, accessories, parts, software, documentation, is proprietary to GATE Enterprise sp. z o.o. sp. k. and protected under Polish laws, EU laws and international treaty provisions. You may not violate the rights of the Intellectual Property and you will not prepare derivative works of or reverse engineer the device or software. No ownership in the Intellectual Property is transferred to you.

### **GATE LIMITED WARRANTY POLICY**

GATE Enterprise sp. z o.o. sp. k. warrants that its product is free from manufacturing and material defects at the date of purchase and for a nonextendable period of two (2) years from the date of purchase. This Limited Warranty is conditioned upon proper use of the product by Purchaser.

1. This Limited Warranty is valid provided that the owner provides a proof of purchase and a properly completed warranty form.
2. This Limited Warranty does not cover: (a) defects or damage (e.g., mechanical, thermal or chemical) resulting from accident, misuse (misinterpretation of the instructions), abuse, neglect, unusual physical, electrical or electromechanical stress, water immersion, repairs or structural modification of any part of the product, or (b) the product that has its serial number removed or made illegible; (c) defects or damage from improper operation, maintenance or installation; (d) installation of the products.
3. Requests for warranty are processed as soon as possible, not exceeding seven (7) working days. The company's obligation under this Limited Warranty shall be limited to providing replacement of part(s) only.

### **PRODUCT DISPOSAL INSTRUCTIONS**

The symbol shown here means that the product is classified as Electrical or Electronic Equipment and should not be disposed with other household and commercial waste at the end of its working life. The Waste of Electrical and Electronic Equipment (WEEE Directive 2012/19/EU) has been put in place to recycle products using best available recovery and recycling techniques to minimize the impact on the environment. Purchasers shall take any old electrical equipment to waste recycling public centers or points of sale.



## Manufactured by

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