



Manuals.plus /

› NEEBRC /

› NEEBRC AM32 ESC USB Linker Program Instruction Manual

NEEBRC USB Link

NEEBRC AM32 ESC USB Linker Program Instruction Manual

Model: USB Link

1. INTRODUCTION

The NEEBRC AM32 ESC USB Linker Program is a compact device designed to facilitate the configuration and firmware updates for AM32/BL32 brushless Electronic Speed Controllers (ESCs). This linker connects your ESC to a computer, allowing you to adjust parameters and manage firmware using compatible software.

2. SAFETY INFORMATION

Please read this instruction manual carefully before use to ensure proper operation and prevent damage to the device or connected components. Always handle electronic components with care. Avoid exposing the linker to moisture, extreme temperatures, or static electricity. Disconnect power from the ESC before making any physical connections or disconnections.

3. PACKAGE CONTENTS

- 1 x AM32 ESC Param Converter (USB Link)

4. PRODUCT OVERVIEW

The AM32 ESC USB Linker is a compact and portable tool for managing your AM32/BL32 ESCs. It features a standard USB-A connector for computer interface and a 3-pin header for connecting to the ESC's signal port.

Key Features:

- Connects AM32/BL32 ESCs to a computer for configuration or firmware upgrades.
- Portable and user-friendly design.
- Requires connection of the ESC signal plug and a USB cable to a computer.
- Compatible with AM32 firmware, designed for AT32 ARM processors for brushless motor control (BLDC).
- Supports safe, fast, smooth, and linear throttle response for various RC vehicle types and flight controllers.

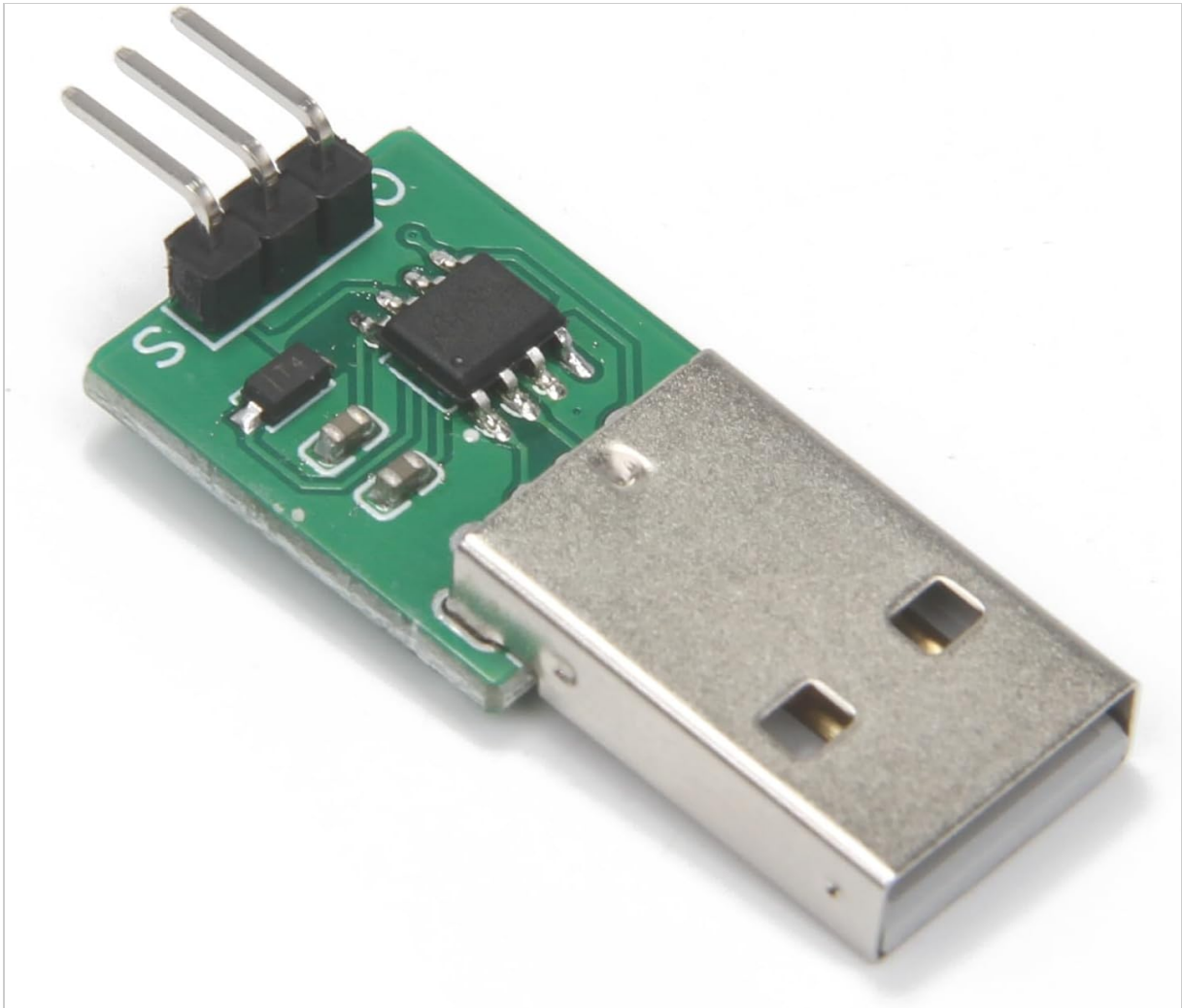


Image 1: Top view of the AM32 ESC USB Linker, highlighting the USB-A connector and the 3-pin header for ESC connection.

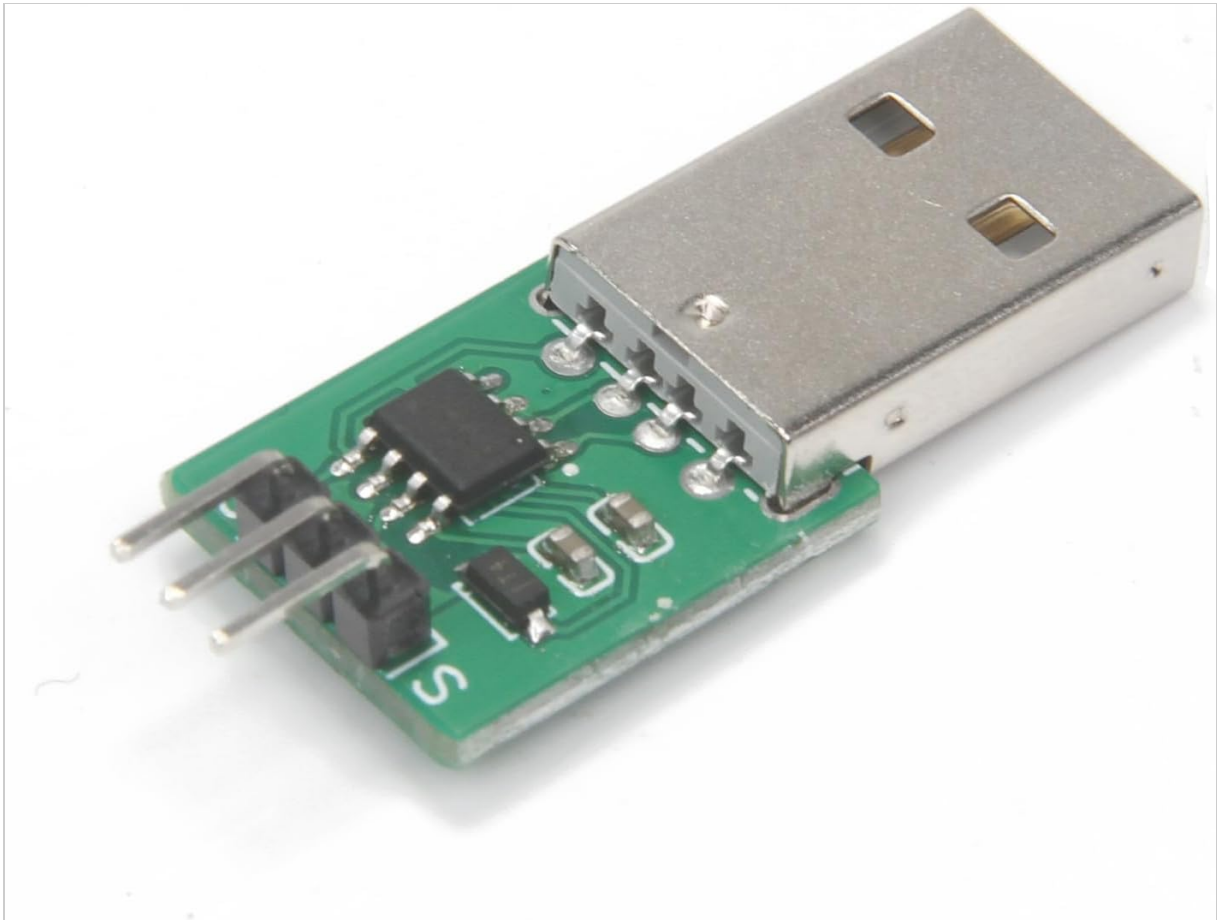


Image 2: Bottom view of the AM32 ESC USB Linker, revealing the main chip and surface-mounted components.

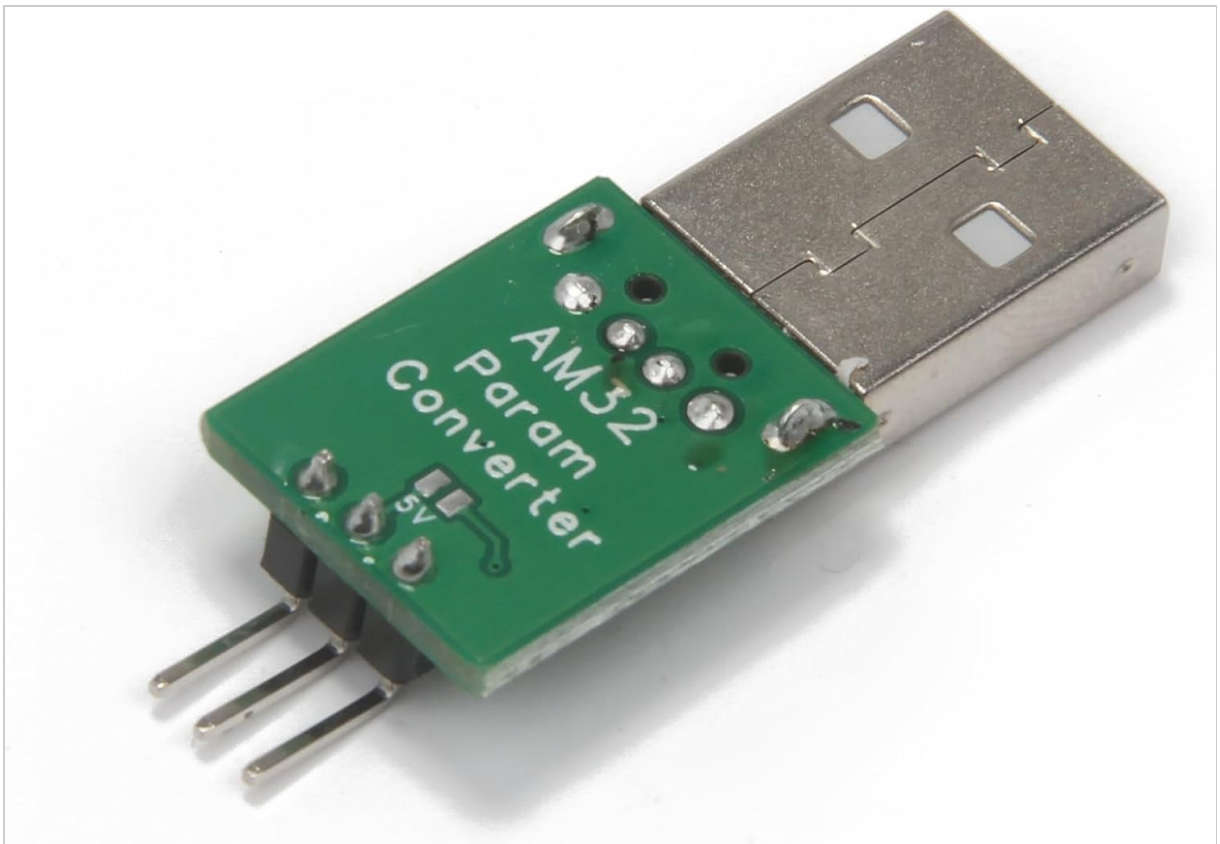


Image 3: Angled view of the AM32 ESC USB Linker, providing a clear perspective of both connection points.

5. SETUP INSTRUCTIONS

1. **Connect the ESC:** Connect the 3-pin signal cable from your AM32/BL32 ESC to the 3-pin header on the USB Linker. Ensure the polarity is correct (Signal, 5V, Ground).
2. **Power Wire Consideration:** If your ESC is already powered by another source (e.g., a flight controller or battery eliminator circuit), it is recommended to **cut the red 5V power wire** from the servo extension cable connecting the ESC to the linker. This prevents redundant power supply to the linker and your computer, which could cause damage. Only the signal and ground wires are typically required for programming.
3. **Connect to Computer:** Plug the USB-A connector of the linker into an available USB port on your computer.
4. **Install VCP Driver:** Your computer may require a Virtual COM Port (VCP) driver to recognize the linker. Download and install the appropriate VCP driver for your operating system from the chip manufacturer's website (e.g., Silicon Labs CP210x or FTDI).
5. **Download Software:** Obtain the latest AM32/BL32 configuration software. This software is usually available from the official AM32 project website or your specific ESC manufacturer's support page.

6. OPERATING INSTRUCTIONS

1. **Launch Software:** Open the AM32/BL32 configuration software on your computer.
2. **Select COM Port:** In the software settings, identify and select the correct COM port that corresponds to the USB Linker. This port number can typically be found in your computer's Device Manager (Windows) or System Information (macOS/Linux) under 'Ports (COM & LPT)'.
3. **Connect to ESC:** Click the 'Connect' or 'Read Settings' button within the software to establish communication with the ESC.
4. **Configure/Update:** Once connected, you can now adjust various parameters of your ESC, update its firmware, or perform other supported configurations as provided by the AM32/BL32 software.
5. **Apply Changes:** After making any changes, ensure you click 'Write Settings' or 'Flash Firmware' to save them to the ESC. Do not disconnect the linker or power during this process.
6. **Disconnect:** After successful configuration, disconnect the ESC from the linker and the linker from your computer.

7. MAINTENANCE

- Keep the USB Linker clean and dry.
- Avoid exposing the device to dust, dirt, moisture, or corrosive substances.
- Store the linker in a safe place away from direct sunlight and extreme temperatures when not in use.
- Do not attempt to disassemble or modify the device, as this will void any warranty and may cause damage.

8. TROUBLESHOOTING

- **Linker not recognized by computer:**
 - Ensure the VCP drivers are correctly installed for your operating system.
 - Try connecting the linker to a different USB port on your computer.
 - Restart your computer and try again.
 - Verify the USB cable (if detachable) is functional.
- **Software cannot connect to ESC:**
 - Confirm that the correct COM port is selected in the configuration software.
 - Check all physical connections between the linker, ESC, and computer.

- Ensure the ESC is powered on (if required by the software for communication, but observe power wire precautions).
- Close any other applications that might be using the COM port.
- **Programming or firmware update errors:**
 - Ensure you are using the correct firmware version for your specific ESC model.
 - Do not interrupt the programming process by disconnecting power or the linker.
 - Verify the ESC has sufficient power during the update.

9. SPECIFICATIONS

Item Name	AM32 ESC Param Converter USB Link
Product Dimensions	4 x 1.5 x 0.8 cm (1.57 x 0.59 x 0.31 inches)
Item Weight	0.48 ounces
Manufacturer	NEEBRC
Compatibility	AM32/BL32 Brushless ESCs
Interface	USB-A (Host side), 3-pin servo connector (ESC side)

10. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the product's purchase page on Amazon or contact NEEBRC directly through their official channels. Keep your proof of purchase for any warranty claims.