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Link do produktu: https://www.nobshop.pl/newbeedrone-lionbee-3-lr-developer-kit-1s-elrs-p-5195.html



NewBeeDrone LionBee 3 LR Developer Kit 1S ELRS

Cena brutto	**795,99 zł**
Cena netto	**647,15 zł**
Dostępność	**Aktualnie niedostępny**
Czas wysyłki	**1 - 3 dni**
Kod producenta	**00AA02**
Kod EAN	**0610010016**
Producent	**NewBeeDrone**

Opis produktu

NewBeeDrone LionBee 3" LR Developer Kit 1S ELRS

Always verify battery polarity before connecting USB power. Incorrect polarity may cause permanent hardware damage.

When operating the VTX at MAX power levels, please ensure the VTX antenna is securely fastened before powering on. Operating at high output without a properly connected antenna may lead to permanent hardware damage or VTX burnout.

The **NewBeeDrone LionBee Long Range Developer Kit** is a completely new approach to 1S long-range FPV drone design. Engineered around an innovative **18650 structural-integrated flight controller**, the LionBee introduces breakthroughs that redefine what a micro long-range drone can be. By mounting the AIO FC directly onto the battery chamber, the frame gains natural vibration resistance, reduced complexity, and improved electrical efficiency—something never before seen in the FPV world.

To unlock true 1S long-range performance, LionBee features a **custom 0.5mm brass high-current conduction system**, eliminating the bottleneck found in traditional 18650 battery holders. This high cross-section path allows modern high-discharge 18650 cells—such as JP30—to reach their full potential, providing **freestyle-capable thrust** on a single cell.

LionBee also introduces the **world's first 1S ESC built on a 32-bit MCU**, developed in collaboration with the AM32 team for optimized performance. At the core of the AIO is the **AT32F435 288MHz processor**, delivering exceptional computational power for advanced flight control, video transmission, and integrated receiver functions. Despite the single-sided PCB layout, the system includes an **800mW Smart-Max VTX**, providing temperature-adaptive power output for safe and reliable long-range video transmission.

A full **reverse-polarity protection circuit** ensures that accidentally inserting the 18650 battery backward will not damage the FC, ESC, PA, or other electronic components—an essential safeguard for field operation. The redesigned **modular replaceable battery chamber** features factory-soldered brass terminals and allows quick replacement if damaged during impact. (**Please note that the reverse polarity protection circuit does not function while also having USB plugged in)**

Released as a **Developer Kit**, the LionBee is designed for pilots, engineers, and innovators who want to take part in shaping the next generation of micro long-range FPV. It is more than a product—it's an expandable, experimental platform for R&D exploration and community-driven evolution.

Assemble Video:

LionBee AIO Flight Controller Specifications

- **MCU:** AT32F435
- **Gyro:** BMI270 Started from March 2026
- **Barometer:** SPL06
- **OSD:** Built-in OSD
- **VTX:** 25mW–800mW Smart-Max Temperature Controlled PA
- **Receiver:** Built-in SPI ELRS
- **ESC:** 4-in-1 AM32 32-bit 5A
- **Input Voltage:** 1S Li-ion / LiPo
- **Protection:** Full reverse-polarity protection
- **Mounting Pattern:** 25.5 × 82 mm
- **GPS Support:** M10Q Series
- **Net weight:** 62.3g
- **Flight time:**
  Hover time: approximately 20 minutes
  Flight time: approximately 15 minutes
  Tested by 18650 JP30 3000mAh, discharge rate of 10C–12C or higher, internal resistance of 5mΩ or lower.

Recommended battery: NewBeeDrone Nitro Nectar Gold 3000mAh 1S Tabless 18650 Battery – 2 Pack

Nectar Injector Cylindro Charger:NewBeeDrone Nectar Injector Cylindro Charger – Dual-Slot USB-C Charger for 18650/21700 & NiMH/NiCD

Developer Access link

AM32 Firmware: LINK
Betaflight firmware:
Betaflight_2025.12 SPI Elrs 3.X
Betaflight_2025.12 SPI Elrs 4.X
LionBee Hardware Schematic: LINK
3D Print file: LINK
LionBee Flight Controller 3D File: LINK
AT32 MCU Driver:LINK

Key Features

- Structural-integrated FC + 18650 battery chamber architecture
- Custom 0.5mm brass high-current conduction system
- World’s first 1S 32-bit ESC MCU
- AT32F435 288MHz high-performance FC processor
- 800mW Smart-Max VTX with adaptive thermal control
- Built-in SPI ExpressLRS receiver with customized firmware support
- Full reverse-polarity protection (battery inserted backward will not cause damage)
- Modular, replaceable 18650 battery chamber with factory-soldered brass terminals
- Developer Kit system designed for experimentation and innovation
- Ideal for long-range exploration, testing, and R&D customization

What’s Included in the Package

- **1× LionBee AIO Flight Controller**
- **1× LionBee Carbon Fiber Frame Kit 3inch**
- **4× 1202 11420KV Motors**
- **8× Gemfan 3020 Propellers (4× CW + 4× CCW)**
- **1× BeeEye Camera**
- **1× NewBeeDrone Honey Dipper 5.8G UFL Antenna (IPEX1)**
- **2× Modular Replaceable 18650 Battery Chamber**
- **1× M10Q GPS Module + 3D Printed GPS Mount**
- **1× BeeT-Antenna for ExpressLRS(ELRS) 2.4GHz receiver MHF3**
- **1× JST1.0 6Pin to JST1.25 6Pin Cable for GPS**
- **2× Velcro Battery Straps**
- **2× Zip Ties**
- **4× Adhesive Mounting Pads**
- **Full Screw & Hardware Pack**

  M2 × 12 Head Hex Socket Screws, Black Nickel (with blue threadlocker): 3 pcs

  M2 × 10 Head Hex Socket Screws, Black Nickel (with blue threadlocker): 3 pcs

  M2 × 6 Head Hex Socket Screws, Black Nickel (with blue threadlocker): 3 pcs

  M2 × 4 Head Hex Socket Screws, Black Nickel (with blue threadlocker): 21 pcs
- **LionBee Developer Kit Manual**

(Battery not included — compatible with JP30 or other high-performance 18650 cells.)