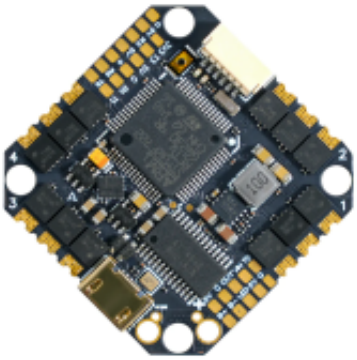
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Link do produktu: https://www.nobshop.pl/betafpv-fc-f722-aio-35a-p-4281.html



AIO BetaFPV FC F722 ESC 35A V2

Cena brutto	**435,99 zł**
Cena netto	**354,46 zł**
Dostępność	**Aktualnie niedostępny**
Czas wysyłki	**1 - 3 dni**
Kod producenta	**01040007_4**
Producent	**BetaFPV**

Opis produktu

AIO BetaFPV FC F722 ESC 35A V2

F722 35A AIO Brushless Flight Controller is very reliable to meet your advanced FPV needs. Comes with an F722 chip this board provides a great performance capability and high processing speed, which brings pilots a stable and smooth flight. Featuring a 6-pin plug&play port, it can directly connect HD Digital VTX with NO soldering work. With the support of up to 6S input voltage, this FC pushes FPV racer to the max.

Bullet Point

- Built-in STM32F722RET6 CPU, F722 FC is more powerful than F4. It features a fast processing speed and stable performance, providing reliable and smooth flight for 4"-5" drones.
- F722 AIO 35A FC has specially added a 6-pin connector for HD Digital VTX, just plug & play, less solder work needed, perfect for the pilots who enjoy the HD Digital VTX system.
- 6 full UARTs are available on this board. With plenty of UARTS, Pilots could have more options for external parts like VTX, GPS, Receiver, and other components.
- It can handle 35A continuous current (40A burst), supports the 2-6S lipo battery, and gives the drone a more robust flight performance.
- With the 6S battery and this F722 35A AIO FC, the drone will break through the limit of the power of the toothpick drone, exploring more possibilities in 4-5'' drones.
- The new BLHeli_32 ESC version is built-in a 16MB flash memory chip dedicated to Blackbox logging, which is an extremely powerful tool for tuning and troubleshooting an FPV drone. It has a faster processing speed and up to 128k PWM frequency, providing a more stable and smoother flight for pilots.

	V2 with BLHeli_32 ESC	V1 with BLHeli_S ESC
PWM Frequency	24k-128k	24k-96k
ESC Firmware	BLHeli_32.9, 32-bit	BLUEJAY V0.16, 8-bit
Blackbox	16MB	Not included
Weight	9.00g	7.06g
Board Thickness	1.6mm	1.4mm

Specification of FC

- Item: F722 35A AIO Brushless Flight Controller
- Weight: 7.06g(BLHeli_S) / 9.00g (BLHeli_32)
- CPU: STM32F722RET6
- Six-Axis: ICM42688
- Mounting hole size: 26mm*26mm
- Firmware version: betaflight_4.3.0_STM32F7X2
- OSD: Built-in BetaFlight OSD (OSD chip: AT7456E)
- Support programmable LED like WS2812 etc

- Built-in current sensor
- Blackbox: 16MB (V2 with BLHeli_32 ESC included)

Specification of ESC

- Signal support: PWM, Oneshot125, Oneshot42, Multishot, Dshot150, Dshot300, Dshot600
- Receiver: Support Frsky XM/XM+ Receiver/ Futaba Receiver/Flysky Receiver/DSMX Receiver/TBS Crossfire Receiver (requires external connection)
- Input voltage: 2S-6S Lipo
- Continuous current: 35A
- Peak current: 40A
- ESC firmware: BLUEJAY G_H_30_48_v0.16 (BLHeli_S) / BETAFPV_35A_V2_BLHeli_32_Multi_32_9 (BLHeli_32)
- Indicators: Power indicator (Red) / FC indicator (Blue)
- Capacitance: CS|5*10*13mm|470μF|35V
- Connector: 80mm 14AWG silicone cable with XT60
- Recommended motors: 14XX series, 15XX series, 16XX series, 18XX series, 20XX series

BLHeli_32 ESC Firmware

The F722 35A AIO FC has two boards with different ESC versions for choice. The V2 board uses AT32F421G8U7 MCU, a 32-bit ESC chip, with BLHeli_32 ESC firmware. This firmware supports up to 128k PWM frequency, featuring faster processing speed and unlocking more functions for the flight.

	BLHeli_32 ESC	BLHeli_S ESC
MCU	AT32F421G8U7	EFM8BB21F16G-C
Firmware Version	BLHeli_32.9, 32-bit	BLUEJAY V0.16, 8-bit
PWM Frequency	24k-128k	24k-96k
Bidirectional DSHOT	Support	Support
Signal Support	PWM, Oneshot125, Oneshot42, Multishot, Dshot150, Dshot300, Dshot600	

Know More About ICM42688 Gyro

The F722 FC ICM42688 version has the same solder pad and layout as BMI270 except for the gyro chip. Besides, you can also find the difference in Betaflight settings.

The ICM42688 gyro supports 8.00 kHz gyro update frequency compared with the BMI270 gyro which supports 3.20 kHz. When using a 6S battery, the ICM42688 gyro has a good performance.

The degree between ICM42688 and BMI270 gyro is different. When configuring F722 FC ICM42688 version, the gyro degree should be set to CW270°.

Diagram for F722 35A AIO FC

The below picture is the top front of the F722 35A AIO Brushless FC. (Both V1 and V2 boards have the same solder pad and connector ports.)

The below picture is the bottom front of the F722 35A AIO Brushless FC. (Both V1 and V2 boards have the same solder pad and connector ports.)

There are 2 LEDs on the bottom of the board to indicate the status, including the FC LED (Blue) and FC Power LED (Red). The LED status for V1 and V2 boards are the same.

LED	**Status**	**Description**
FC LED (Blue)	Solid	Armed
FC LED (Blue)	Extinguished	Disarmed
Power LED (Red)	Solid	Power on

How to Connect the External RX&VTX

To connect the external RX&VTX, please refer to the below diagram. F722 35A AIO V1 and V2 boards have the same soldering pad and connecting ports.

FAQ

- Download the FC firmware and CLI dump file for F722 ICM42688 Gyro (V2 BLHeli_32).
- Download the FC firmware and CLI dump file for F722 ICM42688 Gyro (V1 BLHeli_S).
- Download the FC firmware and CLI dump file for F722 BMI270 Gyro (V1 BLHeli_S).

Package

- 1 * F722 35A AIO Brushless Flight Controller (V1 or V2)
- 1 * Cable Pigtail (XT60)
- 1 * Capacitance
- 1 * 6-Pin Connector for HD Digital VTX
- 4 * M2x10mm Screws
- 8 * M2 Nuts