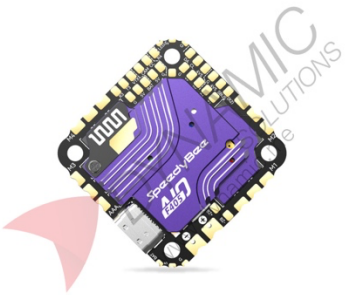
DYNAMIC SOLUTIONS

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SpeedyBee F405 AIO 40A Bluejay Flight Controller 3-6S



Features:

The SpeedyBee F405 AIO 40A integrates an STM32F405 flight controller (ICM-42688P gyro, SPA06-003 barometer, 8MB Blackbox, OSD, BLE Bluetooth) and a 40A / 45A burst Bluejay JH-40 48kHz 4-in-1 ESC supporting DShot600 / DShot300 only, powered from 3-6S LiPo. It provides 4 full UARTs plus SBUS on R2, I2C, WS2812 LED, buzzer and camera control pads, 4.5V and 5V outputs, and a 6-pin DJI port for O3, RunCam Link and Caddx Vista; 9V is supplied by the included external 5V / 9V BEC module.

Specifications	
Product Name	SpeedyBee F405 AIO
MCU	STM32F405
Gyro	ICM-42688P
USB Port Type	Type-C
Barometer	SPA06-003
OSD	Supported
Bluetooth BLE	Supported, Bluetooth speed enhancement 2.0
Wireless FC Firmware Update	Supported (no need to press physical BOOT button)
Wireless Download and BlackBox Analysis	Not supported
DJI Air Unit Connection Method	6-pin direct insertion and soldering
6-pin DJI Sky Port Direct Insertion	Supported, DJI O3 / RunCam Link / Caddx Vista without changing wire order
Flash (for BlackBox)	8MB
Betaflight CC Pads (Camera Control)	Supported
FC Input Voltage	3S-6S LiPo
4.5V Output	Two outputs, total current 1A
5V BEC Output	Three outputs, total current 2A, shared with 4.5V
9V BEC Output	None (external BEC module included, switchable 5V / 9V, total 2A)
Motor Outputs	M1-M4
UART	4 full-function (UART3, UART4, UART5, UART6) + SBUS (R2)
ESC Telemetry	None
I2C	Supported
LED Pads	Supported, for WS2812 LEDs
Buzzer Pads	Supported, BZ+ and BZ-
BOOT Button	Supported, hold while powering on to enter DFU mode
RSSI Pads	None
SmartPort	Not supported
FC Firmware	Betaflight (default)

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Firmware Target Name	SPEEDYBEE F405AIO
Mounting	25.5 x 25.5mm, 2mm hole diameter
Dimensions	33.0 x 33.0 x 8mm
Weight	13.6g (including CNC)
ESC Input Voltage	3-6S LiPo
ESC Continuous Current	40A
ESC Burst Current	45A (10s)
ESC Protocol	DShot600 / DShot300 (other protocols may cause severe errors)
ESC Output Voltage	VBAT (used to power the flight controller)
Current Sensor	Supported (Scale = 254, Offset = 0)
ESC Firmware	Bluejay JH-40 48kHz
Usage	All-in-one flight controller and 4-in-1 ESC for 3-6S FPV drones

Product Dimensions:

