

LINE-ITEM DESCRIPTION

Flight control stack, STM32F405 flight controller with 60 A ×4 4-in-1 ESC, 3–6S, PCBs fabricated to IPC Class 3, PN F4B60-V2, make FlySpark (Anushakti Infotech Pvt. Ltd., India).

1 KEY SPECIFICATIONS

CONFIGURATION	Flight controller + 4-in-1 ESC, 30.5 × 30.5 mm stack
INPUT VOLTAGE	3–6S LiPo; TVS diode protection (FC and ESC)
ESC CURRENT	60 A continuous ×4; 80 A burst, 10 s max
PROCESSOR	STM32F405RGT6, 168 MHz, 1 MB flash
IMU / BARO	ICM-42688-P (SPI) / DPS310 (I ² C)
COMPASS	Not fitted; external via I ² C1
OSD	MAX7456 analog + MSP DisplayPort (DJI / HD)
DATA LOGGING	microSD (blackbox)
REGULATORS	5 V 3 A · 9 V 3 A · 3.3 V · 4.5 V
ESC CONTROL	EFM8BB21, BLHeli_S J_H_40 rev 16.7; DShot150/300/600 (DSHOT300 recommended)
CURRENT / TELEMETRY	Not provided; battery voltage sensing only
STACK SIZE	47.8 × 47.5 × 18.3 mm (height approx.)
FC / ESC BOARD	39.4 × 41.6 mm / 47.8 × 47.5 mm
MOUNTING	30.5 × 30.5 mm, Ø4 mm holes, M3 with grommets
WEIGHT	TBC (V1 stack approx. 34–35 g)
OPERATING TEMP.	Not yet rated (TBC)

2 CONSTRUCTION & QUALITY

BOARD	LAYERS	COPPER OUT / IN	THICKNESS
Flight controller	4	4 oz / 2 oz	TBC
ESC control board	4	4 oz / 2 oz	TBC
ESC power board	6	6 oz / 4 oz	2.0 mm

FABRICATION CLASS	IPC Class 3 (bare boards, all three)
LAMINATE	170 Tg, Shengyi S1170G
SURFACE FINISH	ENIG, 2 μ" gold
ELECTRICAL TEST	100 % flying-probe + 4-wire Kelvin (bare boards)
SOLDER MASK	White, all boards
TRACEABILITY	Batch-coded packaging (batch code printed on the retail box)

IPC Class 3 refers to the fabrication of the bare printed circuit boards; it is not a certification of the assembled product.

3 INTERFACES

UARTS	6: UART1/2/3/6 on pads; UART4 internal (Bluetooth); UART5 RX (ESC telemetry pad)
RC INPUT	Serial (UART2), SBUS via hardware inverter, PPM
MOTOR OUTPUTS	8 (M1–M8); M1–M4 via the ESC connector
OTHER I/O	I ² C1, LED strip, buzzer, camera control, analog RSSI, input for an external current sensor
WIRELESS	Bluetooth LE, ESP32-C3 bridge on UART4, 115200 baud; MSP + MAVLink
CONNECTORS	USB-C; DJI 6-pin; 8-pin FC-ESC (SH 1.0 mm); solder pads

4 FIRMWARE & SOFTWARE

BETAFLIGHT	2026.6.2 · FLYSPARKF4 · factory installed HARDWARE VERIFIED
INAV	9.1.0 · FlySparkF4v1 SUPPORTED
ARDUPILOT	Copter / Plane 4.7.1 · FlysparkF4 · board ID 1361 SUPPORTED
GROUND SOFTWARE	Mission Planner, QGroundControl; Betaflight and INAV configurators; FlySpark Station (Android)
SOURCE	Official release tags; binaries, SHA256 checksums and patches published on GitHub

INAV and ArduPilot bench validation is in progress.

5 SUPPLY & SUPPORT

MANUFACTURER	Anushakti Infotech Pvt. Ltd., Gandhinagar, India
ORIGIN	Designed and made in India
SUPPLY UNIT	1 set, retail box: FC ×1, ESC ×1, 1000 μF 50 V capacitor ×1, heat-shrink ×2, XT60 lead 100 mm ×1, 8-pin SH1.0 cable 25 mm + 75 mm ×2, DJI 6-pin cable 80 mm ×1, M3×30 screws ×4, M3 steel nuts ×4, grommets ×8, O-rings ×4
WARRANTY	1 year, against manufacturing defects
DOCUMENTATION	Manual, datasheet, pinout, firmware
SUPPORT	Engineering team: phone, WhatsApp, e-mail
HSN CODE	TBC
MOQ / LEAD TIME	On request

6 LIMITATIONS

NOT PROVIDED	ESC current sensor, ESC telemetry, on-board compass
FIRMWARE UPDATE	USB-C only (no wireless flashing)
ENVIRONMENTAL	Temperature and vibration ratings not yet published

CONTACT · MANUFACTURER

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SALES & TECHNICAL

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WEB



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