

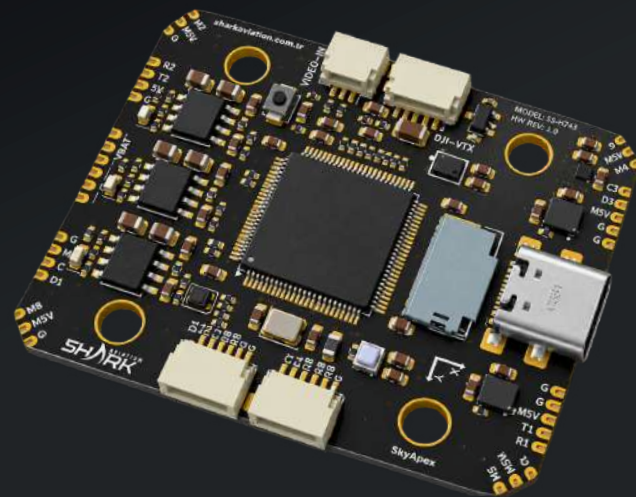
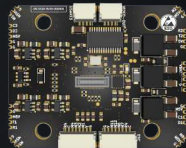
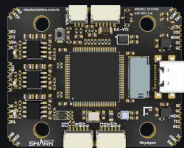
SHARK SKYAPEX FCU



Precise and Reliable Flight with **SkyApex!**

Smart power, precise sensors, stable flight.

With dual barometers, a 6-axis IMU, a high-precision magnetometer, and an isolated sensor power architecture, SkyApex FCU delivers precise, stable, and reliable flight control. Featuring low-noise 3.3 V regulators, an efficient power architecture, OSD support, and a customized connectivity design, it is engineered for professional UAV and avionics applications.



DPS368

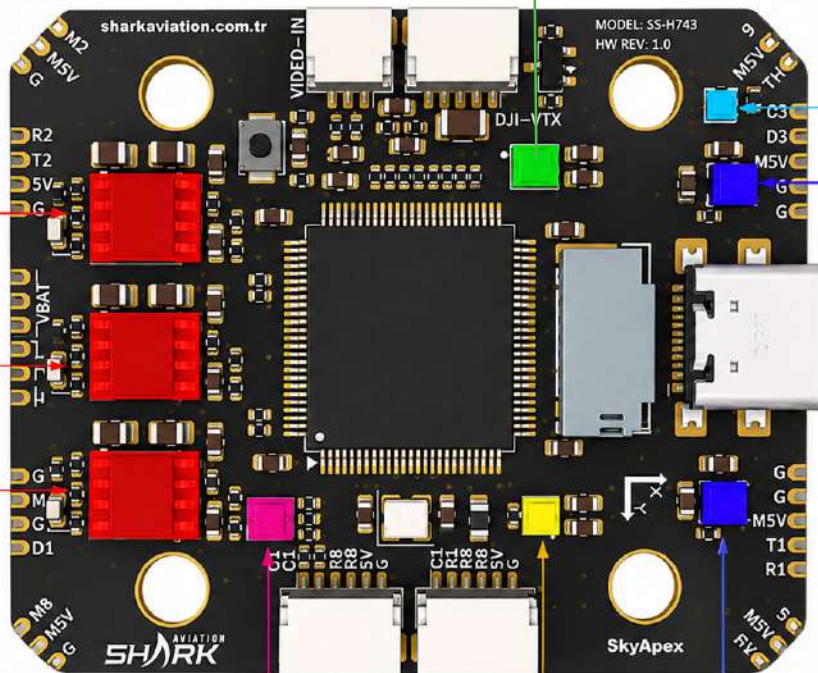
BMM350

BMI270

TPS54360DDA

TPS54360DDA

TPS54360DDA



STATUS LED

BMP581

BMI270

Maximum Precision with Isolated Power

Four independent, low-noise 3.3 V regulators deliver clean power to the barometer and IMU, ensuring stable flight data.

Stable Power Management

The wide-input-range power converter delivers efficient and stable power to the flight controller.

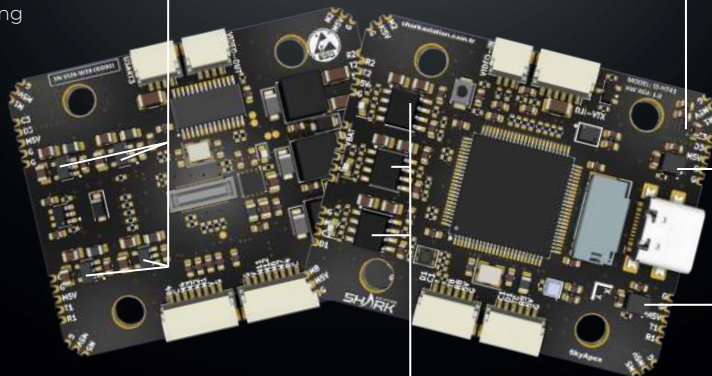
Precise Heading Detection

Precise magnetic sensing ensures reliable heading data.

Stable Flight with a 6-Axis IMU

Detect every movement with precision!

The compact sensor accurately measures acceleration and angular motion, enhancing flight stability, orientation estimation, and control response.



Technical Specifications

Processor	STM32H743VIT6 32bit Arm Cortex-M7
IMU	2× Bosch BMI270
Mag	Bosch BMM350
Barometer	Bosch BMP581 + Infineon DPS368
Video OSD	AT7456E
Operating Voltage	High-Voltage Input
USB Power Input	5V ~ 60V
Operating Temperature	-20°C ~ 85°C
Operating Humidity	5% ~ 95%
PCB Material	FR-4 S1000-2M, Tg 170°C
Interfaces	12× PWM Output
	7× UART
	3× I²C
	1× SBUS (DJI Air Unit Compatible)
	MicroSD Card
	USB Type-C



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