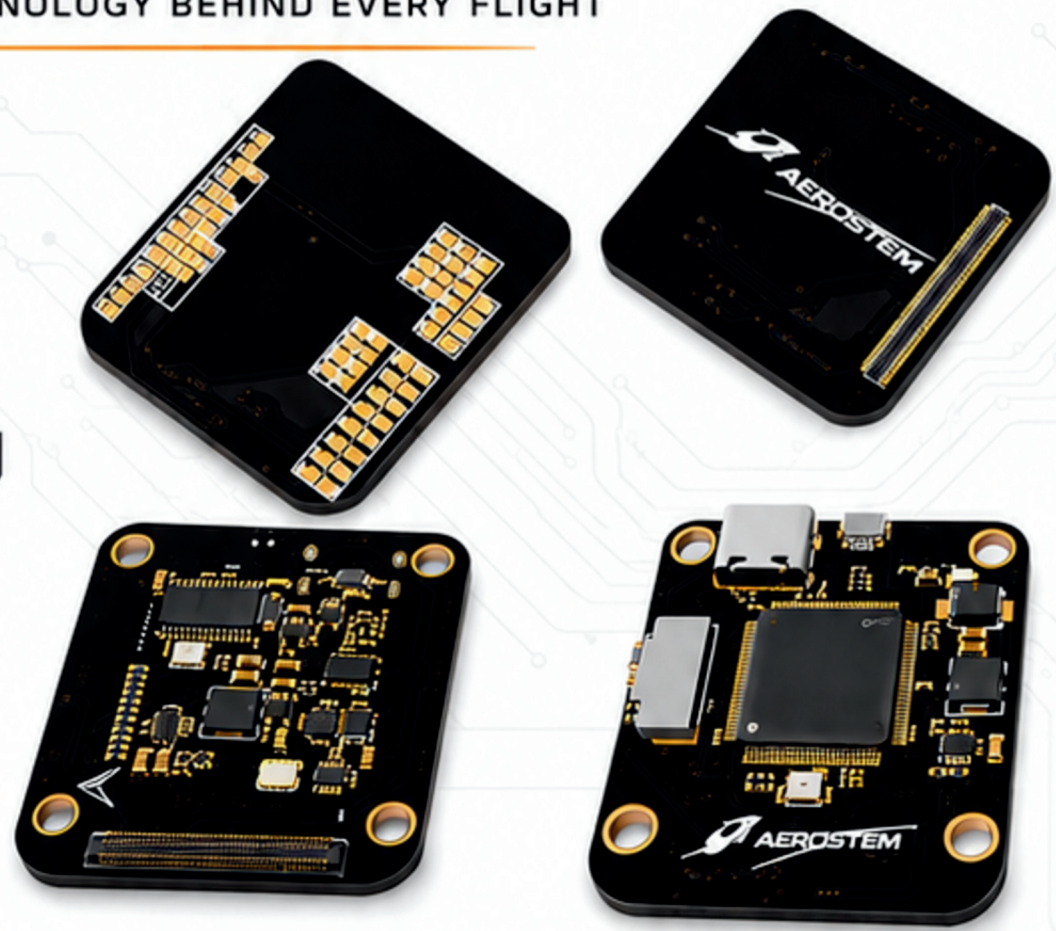


AERO PILOT 1

ULTRA-COMPACT PROFESSIONAL AUTOPILOT

PRECISION. PERFORMANCE. RELIABILITY.

Aero Pilot 1 is a next-generation flight controller designed and manufactured in India for high-performance UAVs. Built with premium components, dual IMU architecture and a secure 100-pin connector, it delivers unmatched reliability and flexibility for any mission.



ONLY 5MM THICK

- TAMPER RESISTANT**
Secure Hardware Architecture
- 100-PIN INTEGRATED CONNECTOR**
Clean, Secure & Reliable
- ULTRA-THIN 5MM DESIGN**
One of India's Thinnest
- PREMIUM COMPONENTS**
Industrial Grade Reliability

- STM32H743VIT6**
480MHz, 2MB Flash
- DUAL IMU**
BMI088 + BMI270
- BARO**
DPS310
- COMPASS**
IST8310
- OSD**
AT7456E
- MICRO SD**
Blackbox Logging

KEY FEATURES

- Ultra-Thin 5mm Design – One of India's Thinnest
- Tamper-Resistant Hardware Architecture
- Single 100-Pin Integrated Connector – Clean, Secure & Reliable
- 7x UART | 10x PWM | 1x CAN | 1x I²C | 1x SWD
- 2x ADC (VBAT, Current)
- USB Type-C
- DJI O3 / O4 VTX Ready
- Built-in 5V 3A & 9V 3A BEC
- 2–6S (6–27V) Direct Battery Input
- Onboard OSD | MicroSD Logging
- Industrial-Grade Components
- Designed & Manufactured in India

BUILT FOR EVERY PLATFORM

- QUADCOPTER
- VTOL
- SURVEILLANCE
- TRACKING
- FPV RACING
- LONG RANGE
- INDUSTRIAL
- AND MANY MORE...

PWM OUTPUTS

- Up to 10 PWM Outputs
- DSHOT**
DSHOT Support (CH1–10)
- BI**
Bidirectional DShot (CH1–8, ArduPilot)

(Currently PX4 & INAV not support BDSHOT function)

AVAILABLE VARIANTS

- PAD EDITION**
 - Direct Solder Pads
 - Lowest Weight
 - Maximum Flexibility
- JST EDITION**
 - Pre-installed JST Connectors
 - Rapid Installation
 - Easy Servicing

SOFTWARE COMPATIBILITY



100-PIN HIROSE DF40 CONNECTOR



- ✓ Secure Integrated Connector Architecture
- ✓ Reduces Wiring Complexity
- ✓ Improves Reliability
- ✓ Easy OEM Integration
- ✓ Future Ready Expansion

- MCU**
STM32H743VIT6
480MHz
- IMU**
BMI088 + BMI270
(Dual)
- BARO**
DPS310
- COMPASS**
IST8310
- PWM**
7x UART
- CAN**
1x CAN
- I²C**
1x I²C
- ADC**
2x ADC
VBAT, Current
- BEC**
5V 3A | 9V 3A
- VBAT**
2–6S
(6–27V)
- WEIGHT**
7g
- THICKNESS**
5mm



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