



Pilotix H743 BMI270 flight controller equipped with an STM32H743 microcontroller unit supporting Betaflight firmware. Features a dual-gyro configuration utilizing BMI270 and MPU6000 sensors connected via SPI interface with 8 kHz update rate, complemented by a built-in accelerometer. Provides 8 motor control outputs and 8 UART ports for peripheral connectivity, along with analog OSD capability. Includes dual BEC outputs rated at 5V/2.5A and 9V/3A. The board measures 37 x 37 mm with 30.5 x 30.5 mm mounting pattern and weighs 8.8 grams. Operates in temperatures from -20 to 40°C with humidity tolerance of 20-95% RH non-condensing. Equipped with USB Type-C port, LED strip output, buzzer output, and DFU button.

Product details	
Model	H743 BMI270
SKU	5501
MCU	
FC MCU	STM32H743
Firmware support	Betaflight
OSD type	Analog OSD
Sensors	
Gyro	BMI270, MPU6000
Gyro connection	SPI
Number of gyros	2
Accelerometer	Built-in
Gyro update rate	8 kHz
Magnetometer	No
Electrical specification	
BEC	5 V @ 2.5 A, 9 V @ 3 A
Interfaces	
Motor control outputs	8
Built-in receiver	no

DFU button	yes
LED strip output	yes
UART ports	8
Buzzer output	yes
USB port	USB Type C
Mechanical specifications	
Dimensions	37 x 37 mm
Mounting	30.5 x 30.5 mm (M3)
Weight	8.8 g
Operating conditions	
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Humidity range	20-95% RH (non-condensing)
Common	
Package contents	Shock-absorbing balls (4x), Power cord
Warranty	2 years

Wiring diagram



